Biological Monitoring Report

Combined Sheet Pile and Soil-Bentonite
Barrier Wall Construction
McCormick & Baxter
Creosoting Company
Portland, Oregon

Task Order No. 71-03-02

October 2003

Prepared for:

OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY

811 Southwest Sixth Avenue Portland, Oregon 97204



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ist of Abbreviations and Acronyms

BiOp Biological Opinion

BMPs Best Management Practices

cfs cubic feet per second

DEQ Oregon Department of Environmental Quality

E & E Ecology and Environment, Inc.

FWDA former waste disposal area

NGVD National Geodetic Vertical Datum

NOAA Fisheries National Oceanic and Atmospheric Administration Fisheries

Remtech Remtech, Inc.

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Introduction

This biological monitoring report was prepared to document the biological monitoring activities associated with the installation of the combined sheet pile and soil-bentonite barrier wall at the McCormick & Baxter Creosoting Company (McCormick & Baxter) site in Portland, Oregon. These activities were described in the *Biological Monitoring and Reporting Plan* (Ecology and Environment, Inc. [E & E] 2003). Biological monitoring and other measures were initiated to ensure that the terms and conditions prescribed within the National Oceanic and Atmospheric Administration Fisheries (NOAA Fisheries) Biological Opinion (BiOp) were fulfilled (NOAA Fisheries 2003). E & E utilized a full-time, on-site biological monitor when construction activities were performed within 100 feet of the shoreline.

This summary report satisfies the reporting requirements of the BiOp, including project identification, project initiation and completion dates, photographic documentation during and after project completion, and documentation of any reported sighting of a sheen on the water for the McCormick & Baxter barrier wall construction project.

The remaining sections of this report are:

- "Project Identification" (Section 2), including a general site description, a summary of construction activities, and project initiation and completion dates;
- "Baseline Survey" (Section 3), which provides a summary of a baseline vegetation survey that was conducted before construction and that will be used to ensure that revegetation requirements are met following sediment cap construction;
- "Monitoring Activities" (Section 4), which describes the various monitoring activities conducted by the on-site biological and construction monitors during construction, including observations of sheen on the water;



1. Introduction

- "Notification of Sick, Injured, or Dead Species" (Section 5), which includes a
 discussion of notification activities that occurred during the construction period;
- "References" (Section 6); and
- "Daily Biological Monitoring Forms" (Appendix A), "Erosion and Sediment Transport Control Measure Forms" (Appendix B), and "Photodocumentation" (Appendix C).

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Project Identification

2.1 Site Description

The McCormick & Baxter site is located on the Willamette River in Portland, Oregon, downstream of Swan Island and upstream of the St. Johns Bridge at 6900 North Edgewater Street. The site is directly adjacent to and east of the Willamette River, which flows to the northwest in the site vicinity. The site's surface topography is a generally flat terrace formed by dredged material placement sometime in the early 1900s. The site footprint encompasses approximately 43 acres on land (upland area) and 17 acres in the river (in-water area). The upland portion lies between a 120-foot-high bluff near the northeast border and a 20-foot-high bank along the Willamette River to the southwest. The site is bordered by inactive industrial properties to the south and a residential area on the bluff to the north.

The Willamette River is a major river that flows northwest through Portland and the site to the Columbia River. The Willamette River is the only surface water body at the site. The site is approximately 7 miles upstream of the confluence of the Willamette River and the Columbia River (River Milepost 7). The Willamette River is not used as a drinking water source downstream of the site. The stream reach along the site is approximately 1,500 feet wide and flows at a rate ranging from 8,300 cubic feet per second (cfs) in summer to 73,000 cfs in winter. Channel sounding maps indicate that adjacent to the site, the navigation channel is maintained at a width of approximately 600 feet and to a maximum depth of 40 feet below the Columbia River datum. A sandy beach with woody debris and sparse vegetation is exposed at the base of the bank most of the year, except during brief periods of high river stage (i.e., generally during late winter or early spring).

In the early 1900s, the first industrial structure, a sawmill, was built on the site. In 1944, the McCormick & Baxter Creosoting Company began wood-treating operations that continued until October 10, 1991.

Shallow groundwater gradients generally trend from the bluff toward the river. Intermediate and deep zone groundwater surface elevations and gradients indicate groundwater flow toward the river in these zones (E & E 2002a).



2.2 Construction Activities

Former wood-treating operations at the McCormick & Baxter creosoting facility have resulted in widespread contamination of soil and groundwater across much of the property. Key contaminants of concern include carcinogenic polynuclear aromatic hydrocarbons, pentachlorophenol, arsenic, and dioxins/furans. To minimize off-site contaminant migration, a combined subsurface sheet pile and soil-bentonite barrier wall was constructed. This activity also included removal of large pieces of wood along the shoreline to facilitate sheet pile construction. The sheet pile construction did not require removal of any pilings as had previously been anticipated.

The sheet pile wall was driven into the ground adjacent to the river with a vibratory hammer. The other three sides of the containment wall were constructed of a soil-bentonite mix, installed by the slurry trench method utilizing specialized excavation equipment.

Sheet Pile Wall

The definable features of the sheet pile wall construction — mobilization, site preparation, and installation — are described below.

Mobilization

Mobilization for the sheet pile wall included delivery and on-site assembly of two cranes, mobilization and assembly of a vibratory hammer and power unit, and delivery and staging of sheet piles.

Site Preparation

Site preparation included clearing work zones, installing erosion control measures (e.g., silt fencing and biobags) between the working area and the Willamette River, and displacing woody debris along the river to allow for working platform construction. Once the erosion control measures were installed, an approximately 30-foot-wide working platform was constructed along surveyed alignment stakes using a dozer. The platform provided easy and safe access for laborers and equipment and a level working surface for sheet pile installation.

Installation

Approximately 1,466 linear feet (99,000 square feet) of sheet piles was installed along the bank of the Willamette River using a panel driving technique. The installation technique consisted of setting and partially driving six to eight sheet pile pairs (a panel). Each newly placed pair was checked for plumb and alignment. Alignment was controlled using a template of two welded I-beams, which was placed along the surveyed wall alignment. Before the first panel was driven to grade, a second panel was set and partially driven. After setting of the second panel, the sheet piles in the first panel were driven in reverse order of setting.

Actual driving of the sheet was accomplished using a vibratory hammer suspended and lowered onto the sheet pile using the second crane. Hydraulic lines



connected the power/control unit to the hammer. Using the control switch panel, the sheet pile drivers were able to open and close the vice clamp, turn the vibration on and off, and change the frequency at which the vibrator operated.

Two areas of difficult driving (refusal areas) were encountered during the installation. One area was encountered near the bulkhead/wood retaining wall region (STA 8+00 to 9+00), and the other at the north end tie-in into the soil-bentonite wall (near STA 15+00) in the former waste disposal area (FWDA). Multiple attempts using several different approaches were made to get refusals to plan grade. To ascertain the cause of the refusal, a drill rig and crew were mobilized to the site. Several borings were performed adjacent to and within 2 feet of the refusal sheets. Borings were advanced to depths well below the wall design depth. No obvious obstruction was encountered. It is hypothesized that the refusals were due to a combination of encountering tight sandy formations and the total surficial friction on the sheets. Despite significant efforts, six sheets met with refusal before design penetration depth (three in the bulkhead area and three in the FWDA). The penetration depths of these refusal sheets varied from -28 feet National Geodetic Vertical Datum (NGVD) to -42 feet NGVD (18 feet to 5 feet from design depth, respectively). During hard driving, the sheets would often fatigue and fail in the vice grips of the vibratory head. The six refusal sheets are marked with the bottom elevation of the sheet (in NGVD) torch-cut into the sheet's top end. The tops of all the sheets, except those in ground elevation transition areas, were left with approximately 2 feet of stickup above the ground surface.

Soil-Bentonite Barrier Wall

The following paragraphs briefly describe the mobilization, site preparation, and installation procedures implemented to install the soil-bentonite portion of the barrier wall.

Mobilization

Specialized equipment mobilized for the construction of the soil-bentonite barrier wall included a long boom excavator allowing excavation to 72 feet below ground surface, a verturi slurry mixer, and a slurry pump. Delivered materials included clay and Naturalgel bentonite (manufactured by Wyo-Ben, Inc.).

Site Preparation

Site preparation involved survey staking of the wall alignment, clearing/grubbing of the work area, construction of a working platform, and excavation of a slurry mixing pond.

Installation

The installation of the soil-bentonite wall consisted of trench excavation, slurry preparation and conveyance, soil-bentonite mixing and placement, verification testing, and protective cap installation.



The process of soil-bentonite wall construction is controlled by specific gravities. The excavated trench was held open using a slurry mix of bentonite and water, which was later displaced by the denser soil-bentonite mixture. Upon trench excavation, slurry was pumped from the slurry mixing pond to the trench via conveyance piping (6-inch high-density polyethylene). As the long boom excavator operator advanced along the wall alignment and reached design depth, soilbentonite mixture was placed within the trench, displacing the slurry. The soilbentonite mixing operation occurred concurrently with excavation within the interior of the wall's perimeter. The soil-bentonite mixture consisted of soil excavated from the trench, slurry from the trench, imported clays, and dry bentonite. Soil-bentonite mixing and placement were accomplished by excavators and a bulldozer. Following wall installation, in situ performance verification testing was also performed at five locations along the wall alignment. Borings were advanced at each location, from which three soil-bentonite samples were collected at various depths using a California modified split spoon. The samples were then sent to an off-site laboratory for required testing, including sieve analysis, moisture content, Atterberg limits, density, and permeability. All test results were acceptable.

Once installation of the soil-bentonite barrier wall was completed, a protective cap was installed to minimize the potential for soil-bentonite wall desiccation. The cap consisted of at least 5 feet of relatively clean site soil (removed and segregated during the installation procedure) placed above the soil-bentonite wall in lifts and compacted with a roller. Permanent crossings, constructed of steel plates and traffic cones, were also installed at two locations atop the soil-bentonite wall to provide a stable surface for vehicles crossing the wall and to prevent wall damage from vehicle traffic. An approximately 2-foot-high soil berm was also constructed along the entire soil-bentonite wall perimeter to prevent vehicles from crossing the wall outside the permanent crossings.

Additional Activities

Additional activities performed during the construction of the barrier wall included the following:

- Excavation of approximately 1,500 cubic yards of highly contaminated soils from an inoperable interceptor trench, located shoreward and outside the sheet pile wall near the tank farm area, and inside a wooden piling retaining wall. The excavated soils were buried on site in a disposal cell within the barrier wall limits and covered with at least 4 feet of relatively clean site soils. The piling retaining wall was left in place;
- Removal of treated lumber from the shoreline along the Willamette River; and
- Slope stabilization by grading (approximately 2:1) and installation of an erosion control mat along the Willamette River bank for the entire length



of the sheet pile wall.

2.3 Project Initiation and Completion

The project was initiated on January 7, 2003, with the Notice to Proceed to Remtech, Inc., (Remtech) the construction contractor for the Oregon Department of Environmental Quality (DEQ). On-site activities did not begin until March 24, 2003, when Remtech began to mobilize equipment to the site. Actual construction activities commenced on April 1, 2003. In addition, E & E performed a baseline survey on March 29, 2003, to document preconstruction vegetation conditions at the site. On-site construction activities were substantially completed by August 12, 2003, with overall project completion by September 30, 2003.

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Baseline Survey

3.1 Vegetation

E & E performed a baseline biological survey on March 29, 2003, to document the existing preconstruction vegetation at the site. Biological conditions observed during and after construction were compared to the baseline conditions to evaluate/identify any impact. This initial biological survey will provide a basis for comparison and evaluation of reclamation success, noting that final reclamation will not occur until after the sediment cap and soil cap are completed at the site.

Before construction, there were three distinct vegetative areas on site: the largest portion of the site (or the upland portion of the site), the riverbank, and the beach or riverfront.

Patches of grasses, Scotch broom, Himalayan blackberry, and a few scattered cottonwoods characterized the upland portion of the site (see Appendix C). This area was reseeded following a soil removal in 1999. Seeds used met the requirements specified in Oregon Department of Transportation Specification 03110.60.

The vegetation along the riverbank was a dense mixture of Scotch broom, Himalayan blackberry, grasses, cottonwoods, and maples. There were also a few willows located near the interceptor trench on the southeast bank.

Along the riverfront, many large and small pieces of wood have been deposited along the project site shoreline. Several of the pieces are large, with root wads attached, but most appear to be relatively transitory, with no development of complex wood structures. However, because of the paucity of large wood pieces in the Lower Willamette River, this material likely provides some complexity and limited refuge during high water events. There is also one snag located on the northwest beach.

3.2 Other Observations

Directly offshore of the northwest beach, an osprey nest was observed on one of the pilings. The nest was still being built at the time of the survey. In addition, one bald eagle was observed flying over the site. No additional threatened, rare or endangered species were observed. 4

Monitoring Activities

4.1 Biological Monitoring

E & E monitored the contractor's procedures during construction for compliance with the applicable Best Management Practices (BMPs). A complete list of BMPs monitored during construction can be found in the *Pollution Control Plan* and the contract documents (E & E 2002b), and as presented in the contractor's *Construction Operations Plan* (Remtech 2003). The BMPs discussed in this section were monitored by either the oversight crew or the biological monitor daily, as applicable. BMP inspections were recorded on the Daily Biological Monitoring Form and/or the Erosion and Sediment Transport Control Measure Form (Appendices A and B, respectively). Additional observations relative to BMPs were noted by the oversight engineers in the daily construction oversight reports and logbooks.

The following BMPs were monitored daily as necessary (including installation and maintenance activities, where applicable):

- Silt fencing and biobags,
- Boom,
- Mobile fueling activities,
- Dust control, and
- Preservation of existing vegetation.

Silt Fencing and Biobags

Temporary silt fencing and biobag installation began on April 1, 2003, before construction activities located within 100 feet of the beach. Wildlife and environmental conditions caused the silt fencing to be torn and/or punctured consistently. Repairs, which included patching holes with fresh panels of fence and/or re-stapling fencing to existing stakes, were made to the fence as needed.

High water levels on May 28, 2003, reached the silt fence at the northwest beach. E & E informed the contractors and recommended that the silt fence be moved



closer inland to avoid further impacts. Although one segment of the silt fence was moved slightly inland, high water levels on June 2, 2003, inundated the silt fence and biobags. E & E recommended complete removal of the silt fence and biobags in areas where construction was no longer active.

Boom

A skirt boom was deployed on April 1, 2003, before construction activities. The boom was moved in accordance with locational changes of construction activities. During the driving of sheet piles, the body of water within and outside the defensive boom was monitored for the presence of any sheen that may be produced as a consequence of sheet pile installation. On several occasions, sheen was observed within the defensive boom during sheet pile operations, and during periods of construction inactivity. Sheen was typically observed during low tides and temperatures greater than 75° Fahrenheit. Sheen was not observed to be a consequence of sheet pile installation activities or other construction activities. Absorbent pads were deployed within the boom area and removed routinely throughout construction. Photographs were taken and are presented in Appendix C.

Mobile Fueling Activities

Proper BMPs were followed. No spills or leaks were observed.

Dust Control

Water was applied as necessary during construction activities to minimize the potential of dust.

Preservation of Existing Vegetation

Along the upland portion of the site, removal of vegetation was limited to those construction areas designated for the slurry trench. Vegetation removal was required along the riverbank for sheet pile operations. Most Himalayan blackberry, Scotch broom, willow, cottonwood, and maple species were removed within the sheet pile operation locations (vegetation located at the top of the bank was crushed as opposed to removed, where feasible). One cottonwood and one snag were left in the northwest portion of the site.

Upon project completion, jute mat was stapled along the bank to minimize erosion impacts.

Most of the pre-existing woody debris that was deposited along the shoreline of the project site was left on the beach. The debris was pushed slightly waterward to make room for the installation of the silt fence. Those pieces that were observed to be contaminated (approximately 20 cubic yards) were removed from the beach to an upland location on site.

4.2 River Stage Monitoring

E & E oversight personnel also monitored the river stage regularly. A site river staff gauge was installed on April 2, 2003, southeast of the project site. River



4. Monitoring Activities

stage levels were measured at low tide daily, using either the site gauge or United States Geological Survey Gauge No. 14211720 (available URL: http://waterdata.usgs.gov/nwis/sw), which is located upstream at the Morrison Bridge in Downtown Portland at River Mile 12.8. A correction factor of -0.1 foot was applied to obtain the river stage level adjacent to the McCormick & Baxter site. High tides were also recorded during spring runoff events and periods of seasonal high water and tides. However, because of the changing tide times, it was not always feasible to be at the site during low and/or high tide. All river stage data were documented on the Daily Biological Monitoring Form (see Appendix A), on the daily construction report form, and in the field logbooks.

During high water events, E & E recommended to the contractor to move all materials, including silt fencing, biobags, and equipment, from the water's edge.

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Notification of Sick, Injured, or Dead Species

The E & E biological monitor identified two dead fish on the beach during construction activities. Photographs of both species were taken and are included in Appendix C.

One dead Chinook king salmon (*Oncorhynchus tshawytscha*) was found on the morning of April 28, 2003, on the northwest beach approximately 10 feet southeast of Station 12+00. The fish was approximately 33 inches long, and partially decomposed around the eye and jaw area. The specific cause of death is unknown. However, based on the state of decomposition, the fish appeared to have been dead for a day or more.

One dead steelhead (*Oncorhynchus mykiss*) was found on the morning of May 27, 2003, at the northwest beach near STA 10+35. The fish was approximately 28 inches long and in fair condition. The specific cause of death is unknown.

E & E followed the notification procedures outlined in the site-specific *Biological Monitoring and Reporting Plan* (E & E 2003). Initial notification was made to the NOAA Fisheries Law Enforcement Office, Vancouver Field Office, on the same day on which each fish was found. E & E also notified Dr. Nancy Munn of NOAA Fisheries' Oregon Habitat Branch to inform her of the finding. No request to bag and preserve the dead species was made by either party.

No other sick, injured, or dead species were observed during construction activities.

6

References

- Ecology and Environment, Inc., (E & E) 2003, *Biological Monitoring and Reporting Plan*, submitted to the Oregon Department of Environmental Quality (DEQ), E & E, Portland, Oregon.
- ______, 2002a, Sediment Cap Basis of Design, submitted to DEQ, E & E, Portland, Oregon.
- ______, 2002b, Contract Documents for Combined Sheet Pile and Soil-Bentonite Barrier Wall, submitted to DEQ, E & E, Portland, Oregon.
- National Oceanic and Atmospheric Administration Fisheries, 2003, *Biological Opinion for Construction of the Barrier Wall at the McCormick and Baxter Creosoting Company Superfund Site, Willamette River, Portland, Oregon*, submitted to the United States Environmental Protection Agency, Oregon Operations Office.
- Remtech, Inc., (Remtech) 2003, Construction Operations Plan for McCormick and Baxter Combined Sheet Pile and Soil-Bentonite Barrier Wall, submitted to the Oregon Department of Environmental Quality, Remtech, Tacoma, Washington.



Monitor's Name:	Erin E. Murphy			
Date:04-01-03	Time: 1730	Time(s) of Low Tide:		
River stage at site usi Staff gauge height at Previous staff gauge h River level rise (+) or Approximate distance	Morrison Bridge from gauge #14211 ng correction factor (-0.1ft) from Mo site (ft): neight at site (ft): fall (-) rate (ft/hr): from water to work area (ft): face at low tide (ft NVGD):	, ,	8.05 time: 1500 7.95 NA time: NA date/time: NA time:	
•	vations of Willamette River oservation main channel away from	site (circle one): High	Average Low	Average for rain conditions.
Observable sheen in l			Yes No Yes No	
• •	of boom (STA. To STA.): of current sheet pile operation (STA	ı.):	1 + 00 4 + 00 NA	
	es moved or displaced since last m pictures and describe in Observatio	-	Yes No elow.	
	ken during monitoring event? ne, direction, and location?	Camera A, Roll 1, Photo Nu	Yes No Yes No mbers 9 &10; Digital Phot	to Numbers 2, 3, & 5-7
	Some logs were removed from the oppoximate location after fence is coployed bywest coast marine and cle	omplete.	silt fence. Logs will	~
Animal Species identi	fled: Several birds on or nea	ar site.		
Corrective Actions:				
Notifications Made:				
Monitor's Signature:				

Monit	or's Name:	Enn E. Mur	phy								
Date:	04-02-03		Time:	1730		Tin	ie(s) of L	ow Tide:		_	
USGS River: Staff g Staff g Previo River: Appro Elevat	Stage and Observiver stage at Natage at site using the stage at site using the stage at site and the stage elevation us staff gauge evel rise (+) or eximate distance ion of water sur NGVD = CRD	Morrison Brid ing correction site (ft): at site (= gan elevation at s fall (-) rate (f e from water s rface at low t	n factor uge hei site (ft N t/hr): to work	(-0.1 ft) ght + 2.: IGVD): area (ft	from M 75)(ft N	forrison		NGVD):	8.51 8.41 5.8 8.55 NA +0.23	time: 10 time: 11 date/time (USGS) time:	130
	Quality Obser					n site (cir	cle one):	High	Average	Low	Average for rain conditions.
Obser Obser Obser	vable difference vable sheen in vable sheen ou answer was yes	e in Water Qi boomed area itside boome	uality no a? d area?	ear cons	struction	n area?	ŕ		Yes Yes Yes	No No No	3
Appro	ter Controls ximate location ximate location				on (ST	A.):			1 + 00 NA	4 + 00	_
	at shoreline featur document with						-	e Actions,	Yes , below.	No	-
Were If yes,	Documentation photographs tail did you note tir log reference no	ken during m ne, direction,		-	?	None			Yes Yes	No No	
	eter Walk vations:	Staff gauge	install	ed.			<u>-</u> .				_
Anima	l Species identi	ified:	Severa	al birds o	on or ne	ear site.					<u> </u>
Corre	ctive Actions:						_				- -
					-	-					
Notifi	cations Made:										<u> </u>
Monit	or's Signature	:									_

Monitor's Name:	Erin E. Murphy		
Date: 04-03-03	Time: 1730	Time(s) of Low Tide:	
River stage at site usi Staff gauge height at a Staff gauge elevation Previous staff gauge of River level rise (+) or Approximate distance	Morrison Bridge from gauge #142 ng correction factor (-0.1 ft) from site (ft): ate (= gauge height + 2.75)(ft elevation at site (ft NGVD): fall (-) rate (ft/hr): from water to work area (ft): face at low tide (ft NGVD):	Morrison Bridge (ft NGVD):	8.47 time: 1330 8.37 time: 1500 8.35 date/time: 04-02-03/1130 -0.0072 200 time:
	vations of Willamette River oservation main channel away fro	om site (circle one): High	Average Low Average for rain conditions.
Observable sheen in I			Yes No Yes No Yes No Ctions, below.
• •	of boom (STA. To STA.): of current sheet pile operation (S	STA.):	1 + 00
	es moved or displaced since last pictures and describe in Observa		Yes No below.
	ken during monitoring event? ne, direction, and location?	None	Yes No Yes No
Perimeter Walk Observations:			
- :			
Animal Species identi	fied: Several birds on or	near site.	
Corrective Actions:		-	
Notifications Made:			
Monitor's Signature:			

Monitor's Name:	nn E. Murpny		
Date: 04-07-03	Time: 1730	Time(s) of Low Tide:_	
River stage at site using Staff gauge height at site Staff gauge elevation at Previous staff gauge ele River level rise (+) or fall	rison Bridge from gauge #142 correction factor (-0.1 ft) from e (ft): site (= gauge height + 2.75)(ft vation at site (ft NGVD): (-) rate (ft/hr): om water to work area (ft):	Morrison Bridge (ft NGVD):	8.00 time: 0800 7.90 time: 0800 8.15 date/time: 04-03-03/1500 -0.01176 15 time:
· ·	tions of Willamette River ervation main channel away fro	om site (circle one): High	Average Low Average for rain conditions.
Observable sheen in boo Observable sheen outsid	de boomed area?	ion area? Observations and Corrective Ac	Yes No Yes No Yes No Ctions, below.
In-water Controls Approximate location of Approximate location of	boom (STA. To STA.): current sheet pile operation (S	STA.):	1 + 00
	moved or displaced since last ctures and describe in Observa	t monitoring event? ations and Corrective Actions,	Yes No below.
Photo Documentation Were photographs taker If yes, did you note time, Photolog reference num		Camera B, Roll #1, Photo I	Yes No Yes No Numbers 6, 7, 8, 9, &10.
	everal fishing boats out in the performed between approxima	morning. Logs were moved o ate station #'s 1+00 thru 5+00.	on beach for installation
Animal Species identified	d: Several birds on or	near site.	
Corrective Actions:			
Notifications Made:			
Monitor's Signature:			

Monitor's Name:

Erin E. Murphy

Date: 04-08-03	Time: 1730	Time(s) of Low Tide:	703	
River Stage and Observation USGS river stage at Morrison I River stage at site using correct Staff gauge height at site (ft): Staff gauge elevation at site (= Previous staff gauge elevation River level rise (+) or fall (-) rat Approximate distance from war Elevation of water surface at lo	Bridge from gauge #142 ction factor (-0.1 ft) from gauge height + 2.75)(ft at site (ft NGVD): e (ft/hr): ter to work area (ft):	Morrison Bridge (ft NGVD):	8.30 8.20 5.65 8.4 8.15 +0.01 15	time: 0900 date/time: 04-07-03/0800 time: 0703
Water Quality Observations of Qualitative turbidity observation		om site (circle one): High	Average	Low
Observable difference in Wate Observable sheen in boomed a Observable sheen outside boo If the answer was yes to any o	area? med area?		Yes Yes Yes tions, below.	No No No
In-water Controls Approximate location of boom Approximate location of curren		STA.):	1 + 00 NA	6 + 00
Habitat Were shoreline features move If yes, document with pictures			Yes below.	No
Photo Documentation				
Were photographs taken durin	a monitoring event?		Yes	7 No
If yes, did you note time, direct			Yes	No
Photolog reference numbers:		Camera A, Roll # 2, Photo Digital photo #19 of boom a		B, Roll # 2, Photos #'s 1 & 2. latform.
Perimeter Walk		-	•	
Observations: Several	fishing boats out in the	morning. Logs were moved o	n beach for i	nstallation
of silt fence to station 5 + 74. F				
performed from approximate s	tation 1 + 00 thru 6 + 00	. Additional boom length was	added to exi	sting boom
up to station 6 + 00.				
Animal Species identified:	Several birds on or	near site. Two rabbits observe	ed.	<u> </u>
Corrective Actions:				
	-			
Notifications Made:				
Monitor's Signature:				

Monitor's Name:	Erin E. Murphy			
Date: 04-09-03	Time: 1730	Time(s) of Low Tide:	756	
River stage at site using Staff gauge height at a Staff gauge elevation Previous staff gauge of River level rise (+) or Approximate distance	Morrison Bridge from gauge #142 ng correction factor (-0.1 ft) from site (ft): at site (= gauge height + 2.75)(ft elevation at site (ft NGVD):	Morrison Bridge (ft NGVD):	7.61 7.51 4.98 7.73 8.4 -0.029 15 7.51	time: 0800 time: 0756 date/time: 04-08-03/0900 time: 0756
_	vations of Willamette River oservation main channel away fro	om site (circle one): High	Average	Low
Observable sheen in l			Yes Yes Yes tions, below.	No No No
	of boom (STA. To STA.): of current sheet pile operation (S	STA.):	1 + 00 NA	6 + 00
	es moved or displaced since last pictures and describe in Observa	_	Yes pelow.	No
	ken during monitoring event? ne, direction, and location?	Digital photo #38	Yes Yes	No No
	Several fishing boats out in the rom station numbers 2 + 50 - 6 + d in areas need at 0945.		activities wer	e
Animal Species identi	fied: Several birds on or	near site. One river otter sited	50' off shore	·
Corrective Actions:				
Notifications Made:			-	
Monitor's Signature:				

Monitor's Name:	Andrew Murphy			
Date: 04-10-03	Time: 1730	Time(s) of Low Tide:	911	
River stage at site using Staff gauge height at staff gauge elevation and Previous staff gauge et River level rise (+) or fapproximate distance	lorrison Bridge from gauge #142 ng correction factor (-0.1 ft) from site (ft): at site (= gauge height + 2.75)(ft elevation at site (ft NGVD):	Morrison Bridge (ft NGVD):	7.68 7.58 5.0 7.75 7.73 0 15	time: 0930 time: 0920 date/time: 04-09-03/0746 time: 0911
	vations of Willamette River servation main channel away fro	om site (circle one): High	Average	Low
Observable sheen in b			Yes Yes Yes tions, below.	No No No
	of boom (STA. To STA.): of current sheet pile operation (\$	STA.):	1 + 00 2 + 50	6 + 00 2 + 57
	es moved or displaced since las pictures and describe in Observ	-	Yes below.	No
	en during monitoring event? ne, direction, and location?		Yes Yes	No No
Perimeter Walk Observations: The containment boor	n may require more anchoring o	r is dragging one anchor slight	ly shoreward.	
Animal Species identif	îed:			
Corrective Actions: None required.				
Notifications Made:				
Monitor's Signature:		·		

Monitor's Name:	Erin Murphy			
Date: 04-14-03	Time: 1730	Time(s) of Low Tide:	1352	
River stage at site usi Staff gauge height at a Staff gauge elevation Previous staff gauge of River level rise (+) or Approximate distance	Morrison Bridge from gauge #142 ng correction factor (-0.1 ft) from site (ft): at site (= gauge height + 2.75)(ft elevation at site (ft NGVD):	Morrison Bridge (ft NGVD):	7.90 5.4 8.15 7.75 0.00398	ne: 1400 ne: 1352 te/time: 04-10-03/0920 ne: 1352
=	vations of Willamette River bservation main channel away fro	m site (circle one): High	Average Lo	w
Observable sheen in I Observable sheen out			Yes No Yes No Yes No tions, below.	
	of boom (STA. To STA.): of current sheet pile operation (S	TA.):		- 00 - 77
	es moved or displaced since last pictures and describe in Observa	•	Yes No	
	ken during monitoring event? ne, direction, and location?	Camera A, Roll 2, Photo #'s		
Perimeter Walk Observations:		Video taken of sheet pile ar	nd slurry operatio	ns.
1015 to previous local Activities on west bea (STA 14 + 00 - 16 + 0	m was washed in shore upon arrition. Activities on east beach incl ch include: installation of silt fenc 0), and well abandonment (EW-1 fied: Canadian geese, Osprey, M	ude: sheet pile operation and e (STA 14 + 00- 15 + 00), clea 3).	TM well abandon iring and grading	
Corrective Actions: None required.				
Notifications Made:				

Monitor's Name: Erin Murphy

Date:	04-15-03	Time: 1730	Time(s) of Low Tide:	1442		
River	Stage and Observat	ions	4.4700 (0.NO)(D)	10.00	76 4400	
USGS	S river stage at Morriso	n Bridge from gauge #142	11720 (ft NGVD): Morrison Bridge (ft NGVD):	8.28 8.18	time: 1430	
	gauge height at site (ft)		womson bridge (it 1404b).	5.7	time: 1442	
		(= gauge height + 2.75)(ft	NGVD)	8.44	1	
	ous staff gauge elevation			8.15	date/time:	04-14-03/1352
	level rise (+) or fall (-) I			0.011837	7	
	ximate distance from w			15 8.15	time: 1352	
Lleva	tion of water surface at	t low tide (π NGVD):		0.15	Junie. 1332	
Wate	r Quality Observation	ns of Willamette River			-	
Quali	tative turbidity observat	ion main channel away fror	n site (circle one): High	Average	Low	Rain -
Obse	rvable difference in Wa	iter Quality near construction	on area?	Yes	No	
Obse	rvable sheen in boome	d area?		Yes	No	
	rvable sheen outside be			Yes	No	
If the	answer was yes to any	of the above, complete Ob	servations and Corrective Action	ons, below.		
In-wa	iter Controls					_
	oximate location of boo			1+00	6+00	
Appro	eximate location of curr	ent sheet pile operation (S7	ΓA.):	2+77	3+15	l
Habi	tat					_
Were	shoreline features mov	ved or displaced since last	monitoring event?	Yes	No]
If yes	, document with picture	es and describe in Observa	tions and Corrective Actions, be	elow.		
Phot	o Documentation				_	
Were	photographs taken du	ring monitoring event?		Yes	No	
If yes	, did you note time, dire	ection, and location?		Yes	No	
Photo	olog reference numbers	3:	Camera A, Roll 2, Photo #	's 11-18		
Perir	neter Walk	-				
	rvations:			<u>.</u> .		-
Activ	rities on east beach inc	lude: sheet pile operation a	nd TM well abandonment.	45.00\		-
Activ	ties on west beach inc	lude: installation of bio bag	s along silt fence (STA 14+00- rew excavated pits along the n	orthwest fence	line	-
UI PIE	MOIII (31A 13+00 - 10	130). Sewel lifte locating c	New excavated pits diong the ti	OTERWOOD TO THE		-
Anim	al Species identified: (Canadian geese, Osprey, M	lallards, Gulls, Cormorants and	Crows.		_
						-
					·····	-
	ective Actions:	 				-
NONE	required.					-
						-
						-
						-
Notif	ications Made:			,		_
						-
Mon	itor's Signature:					

Monitor's Name:	Erin Murphy				
Date: 04-16-03	Time: 1730	Time(s) of Low Tide:	1531		
River Stage and Obse	ervations				
	orrison Bridge from gauge #14211	720 (ft NGVD):	9.00	1 time: 1530	
	g correction factor (-0.1 ft) from Me	•	8.90	1	
Staff gauge height at si		· , ,	5.4	time: 1531	
	t site (= gauge height + 2.75)(ft No	GVD)	8.11		
	evation at site (ft NGVD):	•	8.44	date/time:	04-15-03/1442
River level rise (+) or fa	The state of the s		+0.0132	1	
	rom water to work area (ft):		15	1	
Elevation of water surfa	ice at low tide (ft NGVD):		8.11	time: 1531	
Water Quality Observ	ations of Willamette River				
Qualitative turbidity obs	ervation main channel away from	site (circle one): High	Average	Low	
Observable difference i	n Water Quality near construction	area?	Yes	No	
Observable sheen in bo	omed area?		Yes	No	
Observable sheen outsi	de boomed area?		Yes	No	
If the answer was yes to	o any of the above, complete Obse	ervations and Corrective Actions	s, below.		
In-water Controls					
Approximate location of	,		1+00	6+00	
Approximate location of	current sheet pile operation (STA	.):	3+15	3+60	
Habitat					
	s moved or displaced since last mo	•	Yes	No	
If yes, document with pi	ctures and describe in Observatio	ns and Corrective Actions, belo	w.		
Photo Documentation	1				
	n during monitoring event?		Yes	No	
	e, direction, and location?		Yes	No	
Photolog reference num		Camera A, Roll 2, Photo #'s		110	
Thorolog foldroned han	Dele.	Camera B, Roll 3, Photo #2			
Perimeter Walk		Carriera B, Roll 3, Frioto #2	13-14		
Observations:					
	h include: sheet pile construction.				
	n include: construction of platform	(STA 15+00 - 16+50). Well al	bandonment	(EW-6s.	
	ating crew filled in excavated pits				ne.
	ed: Canadian geese, Osprey, Mall				
Animai Species identine	d. Carladian geese, Osprey, Maii	arus, Guils, Cormorants, Crows	s and one bot	o cat.	
Corrective Actions:					
None required.					
				,	
Notifications Made:					
Monitor's Signature:					

Erin Murphy

Monitor's Name:

Date: 04-17-03	11me: 1/30	Time(s) of Low Tide:	1010		
River Stage and Observati	ons			_	
USGS river stage at Morriso			8.84	time: 1630	
River stage at site using corr		Norrison Bridge (ft NGVD):	8.74	4	
Staff gauge height at site (ft)		101/101	6.2	time: 1618	
Staff gauge elevation at site		IGVD)	8.9	4	04 46 02/4624
Previous staff gauge elevation			8.11 0.008		04-16-03/1531
River level rise (+) or fall (-) r Approximate distance from w	•		15	4	
Elevation of water surface at	• •		8.9	time: 1618	
Elevation of water surface at	low lide (It 140 VD).		0.0	_	
Water Quality Observation				7	
Qualitative turbidity observati	ion main channel away from	n site (circle one): High	Average	Low	•
Observable difference in Wa	ter Quality near construction	n area?	Yes	No	
Observable sheen in boomed	d area?		Yes	No	
Observable sheen outside bo			Yes .	No	
If the answer was yes to any	of the above, complete Obs	servations and Corrective Action	ons, below.		
In-water Controls					
Approximate location of boor	n (STA. To STA.):		1+00	6+00	
Approximate location of curre	ent sheet pile operation (ST.	A.):	3+60	3+90	
Habitat					
Were shoreline features mov	ed or displaced since last n	nonitorina event?	Yes	No	
		ons and Corrective Actions, be			
Photo Documentation					
Were photographs taken dur	ing monitoring event?		Yes	No	
If yes, did you note time, dire			Yes	No	
Photolog reference numbers			100	_	
1 Hotolog Telefeliee Hambers	•				
Perimeter Walk					-
Observations:	uda, abaat sila aasats atiaa		<u> </u>		
Activities on west beach incl		m (STA 15+00 - 16+50). Geo	tech hegan ins	tallation	
of slope inclinometers (STA		III (OTA 10100 - 10100). OCO	teen began me	italiation	•
or brope memorinators (evi)	10 10, 10 007				•
Animal Species identified: C	anadian geese, Osprey, Ma	allards, Gulls, Cormorants, and	Crows.		
					•
Corrective Actions:					
None required.	·-	<u></u>			•
					•
					•
	-	-			•
Notifications Made:					•
					
Monitor's Signature:					

Monitor's Name:	Erin Murphy			
Date: 04-21-03	Time: 1730	Time(s) of Low Tide:	633	
River stage at site usin Staff gauge height at si Staff gauge elevation a Previous staff gauge el River level rise (+) or fa Approximate distance fi	orrison Bridge from gauge #142117 g correction factor (-0.1 ft) from Mor ite (ft): it site (= gauge height + 2.75)(ft NG evation at site (ft NGVD):	rison Bridge (ft NGVD):	8.00 6.65 ti 9.4 10.43 d 0.009952 H	me: 0630 me: 1000 High Tide late/time: 04-17-03/0722 High Tide me: 0633 (USGS)
-	rations of Willamette River servation main channel away from si	te (circle one): High	Average L	ow
Observable sheen in bo Observable sheen outs			Yes N	lo lo
	f boom (STA. To STA.): f current sheet pile operation (STA.)	:		+00
	s moved or displaced since last mor ictures and describe in Observation	-		ło
	en during monitoring event? e, direction, and location?			lo lo
Perimeter Walk Observations:	·			
	h include: sheet pile construction. h include: construction of platform (STA 15+00 - 19+50). Installa	ation of bio bags	along
silt fence. Animal Species identific	ed: Canadian geese, Osprey, Malla	rds, Gulls, Cormorants, and C	Crows.	<u> </u>
Corrective Actions: None required.				
Notifications Made:				·
Monitor's Signature:				

Monitor's Name:	Erin Murphy			
Date: 04-22-03	Time: 1730	Time(s) of Low Tide:	733	
River stage at site usin Staff gauge height at si Staff gauge elevation a Previous staff gauge el River level rise (+) or fa Approximate distance f	orrison Bridge from gauge #14211720 g correction factor (-0.1 ft) from Morriso ite (ft): at site (= gauge height + 2.75)(ft NGVD levation at site (ft NGVD):	on Bridge (ft NGVD):	7.63 6.00 ti 8.75 9.4 -0.026 H	me: 0730 ime: 1057 High Tide late/time: 04-21-03/1000 High Tide ime: 0633 (USGS)
-	vations of Willamette River servation main channel away from site	(circle one): High	Average	.ow
Observable sheen in be Observable sheen outs			Yes Yes	No No
	of boom (STA. To STA.): of current sheet pile operation (STA.):			5+00 +50
	es moved or displaced since last monito pictures and describe in Observations a	=		No
	en during monitoring event? e, direction, and location?			No No
Activities on west beac	ch include: sheet pile construction. ch include: Construction of slurry trenc ied: Canadian geese, Osprey, Mallards		Crows.	
Corrective Actions:				
None required.				
Notifications Made:				
Monitor's Signature:				

Monitor's Name: En	n Murpny				
Date: 04-23-03	Time: 1730	Time(s) of Low Tide:	840		
River stage at site using of Staff gauge height at site Staff gauge elevation at si Previous staff gauge eleva River level rise (+) or fall (-	son Bridge from gauge #142 orrection factor (-0.1 ft) from ft): te (= gauge height + 2.75)(ft f tion at site (ft NGVD): t) rate (ft/hr):	Morrison Bridge (ft NGVD):	8.04 8.75 date/tir +0.0084 (USGS	0840 Low Tide ne: 04-22-03/1057	High Tide
Approximate distance from Elevation of water surface	, ,		15 8.04 time: (0840 (Site)	
Water Quality Observati Qualitative turbidity observ	ons of Willamette River ation main channel away fron	n site (circle one): High	Average Low	Rain conditions	
Observable sheen in boom Observable sheen outside	boomed area?	n area? servations and Corrective Action	Yes No Yes No Yes No Ons, below.		
In-water Controls Approximate location of both Approximate location of cu	oom (STA. To STA.): rrent sheet pile operation (ST	'A.):	1+00 6+00 4+50 5+00		
	oved or displaced since last res and describe in Observat	nonitoring event? ions and Corrective Actions, b	Yes No elow.		
Photo Documentation					
Were photographs taken of lf yes, did you note time, did Photolog reference number	rection, and location?		Yes No Yes No	\exists	
Perimeter Walk Observations:					
	clude: sheet pile construction clude: Slurry wall construction				
Animal Species identified:	Canadian geese, Osprey, M	allards, Gulls, and Crows.			
Corrective Actions: None required.					
Notifications Made:					
Monitor's Signature:					

Erin Murphy

Monitor's Name:

Date:	04-24-03	Time: 1730	Time(s) of Low Tide	: 1000	
USGS River Staff of Staff of Previous River Appro	stage at site using con gauge height at site (gauge elevation at sit pous staff gauge eleva level rise (+) or fall (- ximate distance from	son Bridge from gauge #142 prrection factor (-0.1 ft) from ft): e (= gauge height + 2.75)(ft tion at site (ft NGVD):	Morrison Bridge (ft NGVD):	NA #VALUE! 6.08 8.83 8.04 +0.0316 15 8.83	time: 1000 time: 1000 Low Tide date/time: 04-23-03/0840 time: 1000 (Site)
	-	ons of Willamette River ation main channel away fro	m site (circle one): High	Average	Low
Obsei Obsei	vable difference in W vable sheen in boom vable sheen outside	/ater Quality near construction ded area? boomed area?	, , ,	Yes Yes Yes	No No No
Appro	ter Controls eximate location of bo eximate location of cu	om (STA. To STA.): rrent sheet pile operation (S	TA.):	1+00 5+00	6+00 0
	shoreline features m	oved or displaced since last res and describe in Observa	monitoring event? ations and Corrective Actions,	Yes below.	No
Were		luring monitoring event? frection, and location? rs:		Yes Yes	No No
Obse Activ	neter Walk rvations: ities on east beach in ties on west beach in	clude: sheet pile constructio			
Anima	al Species identified:	Canadian geese, Osprey, N	Mallards, Gulls, and Crows.		<u>. </u>
	ctive Actions: required.				
Notif	cations Made:				
Moni	tor's Signature:				

Monitor's Name:	Erin Murphy			
Date: 04-28-03	Time: 1730	Time(s) of Low Tide:	1410	
River Stage and Obs	ervations			
-	lorrison Bridge from gauge #142	11720 (ft NGVD):	8.09	time: 1400
-	ng correction factor (-0.1 ft) from	•	7.99	7
Staff gauge height at s	. ,	3 (1 1 1 7	5.49	time: 1410 Low Tide
	at site (= gauge height + 2.75)(ft l	NGVD)	8.24	†
	levation at site (ft NGVD):	,	8.83	date/time: 04-24-03/1000
River level rise (+) or fa			0059	4
Approximate distance	from water to work area (ft):		15	7
Elevation of water surf	ace at low tide (ft NGVD):		8.24	time: 1000 (Site)
Water Quality Obser	vations of Willamette River			
Qualitative turbidity ob	servation main channel away fror	m site (circle one): High	Average	Low
Observable difference	in Water Quality near construction	on area?	Yes	No
Observable sheen in b	oomed area?		Yes	No
Observable sheen outs	side boomed area?		Yes	No
If the answer was yes	to any of the above, complete Ob	servations and Corrective Action	ons, below.	
In-water Controls				
• •	of boom (STA. To STA.):		1+00	6+00
Approximate location of	of current sheet pile operation (ST	TA.):	5+45	5+80
Habitat				
Were shoreline feature	es moved or displaced since last	monitoring event?	Yes	No
If yes, document with p	pictures and describe in Observa	tions and Corrective Actions, b	elow.	
Photo Documentatio	n			
Were photographs tak	en during monitoring event?		Yes	No
= :	e, direction, and location?		Yes	No
Photolog reference nu				
Perimeter Walk				
Observations:		~		
Activities on east bear	ch include: sheet pile construction	n.		
	ch include: Slurry wall construct			
Animal Species identif	ied: Canadian geese, Osprey, M	fallards, Gulls, and Crows.		•
	llmon (Oncorhynchus tshawytsc		h, approxima	ately 10'
SE of STA 12+00.				
Corrective Actions:				
Notifications Made:				
	Chinook. Calls were made to bot		Dr. Nancy I	Munn of the
Oregon NOAA branch.	No request was made to presen	rve/bag dead Chinook.		
Monitor's Signature:				

Monitor's Name:

Erin Murphy

Date	: 1	04-29-03	Time: 1730	Time(s) of Low Tide:	1452		
Rive	r S	Stage and Observat	ions				
USG	S	river stage at Morriso	on Bridge from gauge #142	11720 (ft NGVD):	8.41	time: 1430	
River	s	tage at site using cor	rection factor (-0.1 ft) from	Morrison Bridge (ft NGVD):	8.31		
Staff	ga	auge height at site (ft)):		5.78	time: 1452 Low Tide	
	_	•	(= gauge height + 2.75)(ft I	NGVD)	8.53		
		us staff gauge elevation			8.24	date/time: 04-28-03/14	10
		evel rise (+) or fall (-)			+0.0118		
			vater to work area (ft):		15	_	
Eleva	atio	on of water surface a	t low tide (ft NGVD):		8.53	time: 1452 (Site)	
Wate	r	Quality Observation	ns of Willamette River			_	
Quali	ta	tive turbidity observat	ion main channel away fror	n site (circle one): High	Average	Low	
Obse	ı٧	able difference in Wa	ater Quality near construction	on area?	Yes	No	
Obse	٠r٧	able sheen in boome	d area?		Yes	No	
Obse	٠r٧	able sheen outside be	oomed area?		Yes	No	
If the	а	nswer was yes to any	of the above, complete Ob	servations and Corrective Acti	ons, below.		
In-wa	ato	er Controls					
Appro	oх	imate location of boo	m (STA. To STA.):		1+50	7+50	
Appro	ox	simate location of curr	ent sheet pile operation (S1	ΓA.):	5+80	6+25	
Habi	ta	t					
Were	9 5	shoreline features mo	ved or displaced since last	monitoring event?	Yes	No	
If yes	i, (document with picture	es and describe in Observa	tions and Corrective Actions, t	elow.		
Phot	0	Documentation					
Were	e p	ohotographs taken du	ring monitoring event?		Yes	No	
If yes	, (did you note time, dire	ection, and location?		Yes	No	
Photo	olo	og reference numbers	3 :				
Perir	ne	eter Walk					
		vations:					
Activ	/iti	ies on east beach inc	lude: sheet pile construction	n.			
Activ	itie	es on west beach incl	lude: Slurry wall construct	tion.			
Anim	al	Species identified: (Canadian geese, Osprey, M	fallards, Gulls, and Crows.			
		-					
Corre		tive Actions:	·				
Cone		LIVE ACIONS.					
				·			
Notif	ic	cations Made:					
							
Moni	itc	or's Signature:					

Monto 3 Manie.	Lim Marphy				
Date: 04-30-03	Time: 1730	Time(s) of Low Tide:	1530		
River Stage and Obse	ervations				
_	orrison Bridge from gauge #14211	720 (ft NGVD):	8.54	time: 1530	1
_	g correction factor (-0.1 ft) from Mo	•	8.44	-	,
=	- , , ,	mison bridge (it 140 VD).		- 4500	
Staff gauge height at si			5.90	time: 1530	Low ride
	t site (= gauge height + 2.75)(ft NG	SVD)	8.65		
Previous staff gauge el	evation at site (ft NGVD):		8.53	date/time:	04-29-03/1452
River level rise (+) or fa	ıll (-) rate (ft/hr):		+0.004898	3	
Approximate distance f	rom water to work area (ft):		15	1	
Elevation of water surfa	ace at low tide (ft NGVD):		8.65	time: 1530	(Site)
Water Quality Observ	rations of Willamette River				
-	ervation main channel away from s	ito (cirolo ono). Lliab	A	1	
Qualitative turbidity obs	ervation main channel away from s	site (circle one): High	Average	Low	_
Observable difference i	in Water Quality near construction	area?	Yes	No	
Observable sheen in bo	oomed area?		Yes	No	
Observable sheen outs	ide boomed area?		Yes	No	•
		- retions and Compating Astic		140	J
ii the answer was yes t	o any of the above, complete Obse	rvations and Corrective Action	ons, below.		
In-water Controls					
Approximate location o	f boom (STA. To STA.):		1+50	7+50	7
	f current sheet pile operation (STA.):	6+42	7+10	1
Habitat					_
				۹	
	s moved or displaced since last mo	-	Yes	No	
If yes, document with p	ictures and describe in Observation	ns and Corrective Actions, b	elow.		
Photo Documentation	1				
Were photographs take	en during monitoring event?		Yes	No	
	e, direction, and location?		Yes	No	
•		Canada A Dall 2 Mad 4 47	103	7.40	
Photolog reference nur	nbers:	Camera A, Roll 3, #'s14-17			
Perimeter Walk					
Observations:					
	h include: sheet pile construction.				_
	h include: Slurry wall construction	Installation of additional si	It fence from	annroximate	-
	aring of driftwood from beach, exsis				<u> </u>
STA 12+50 to 8+82.	aring or armitrood from Beddin, exact	ang trees and vegetation to	ok place iron		_
Animal Species identific	ed: Canadian geese, Osprey, Mall	ards, Gulls, and Crows.			_
					-
			<u> </u>		_
Corrective Actions:					_
					-
 					_
					-
					- -
Notifications Made:					_
Nouncations Made:					-
					_
Monitor's Signature:_					

Monitor's Name:

Erin Murphy

Date:	05-01-03	Time: 1730	Time(s) of Low Tide:	1605		
River	Stage and Observations				_	
USGS	river stage at Morrison Brid	lge from gauge #14211720	(ft NGVD):	8.33	time: 1600	
River	stage at site using correction	n factor (-0.1 ft) from Morris	son Bridge (ft NGVD):	8.23		
Staff g	gauge height at site (ft):			7.15	time: 1605	Low Tide
Staff g	gauge elevation at site (= ga	uge height + 2.75)(ft NGVD))	9.9]	
Previo	ous staff gauge elevation at s	site (ft NGVD):		8.65	date/time:	04-30-03/1530
River	level rise (+) or fall (-) rate (f	t/hr):		+0.004898		
	ximate distance from water t	• •		15		
Elevat	tion of water surface at low t	ide (ft NGVD):		8.65	time: 1530	(Site)
Water	Quality Observations of	Willamette River			_	
Qualit	ative turbidity observation ma	ain channel away from site	(circle one): High	Average	Low	_
Obser	vable difference in Water Q	uality near construction are	a?	Yes	No	1
Obser	vable sheen in boomed area	1?		Yes	No]
Obser	vable sheen outside boomed	d area?		Yes	No	
If the a	answer was yes to any of the	e above, complete Observa	tions and Corrective Actio	ns, below.		
In-wa	ter Controls					_
Appro	ximate location of boom (ST	A. To STA.):		1+50	7+50	j
Appro	ximate location of current sh	eet pile operation (STA.):		7+10	7+50]
Habit	at					
	shoreline features moved or			Yes	No	
If yes,	document with pictures and	I describe in Observations	and Corrective Actions, be	elow.		
Photo	Documentation					_
	photographs taken during m	_		Yes	No	
If yes,	did you note time, direction,	and location?		Yes	No	
Photo	log reference numbers:					
Perim	neter Walk					
Obser	rvations:					_
Activi	ties on east beach include:	sheet pile construction.				_
	ies on west beach include:					=
	ng of exsisting trees and veg		A 12+50 to 8+82. Requir	ed bio bags	were	_
<u>install</u>	ed from approximate STA 1.	<u>3+00-8.60.</u>				
Anima	al Species identified: Canad	lian geese, Osprey, Mallard	ls, Gulls, and Crows.			
						_
						- -
Corre	ctive Actions:					
						_
						-
						_
Notifi	cations Made:	<u> </u>			·	-
						_
Monif	tor's Signature:					_
2						

Monitor's Name:

Date: (05-05-03	Time: 1730	Time(s) of Low Tide:	527	
USGS r River st Staff ga Staff ga Previou River le Approxi	Stage and Observations river stage at Morrison B tage at site using correct auge height at site (ft): auge elevation at site (= 9 auge elevation at site (-) rate imate distance from water on of water surface at low	ridge from gauge #142 ion factor (-0.1 ft) from gauge height + 2.75)(ft it site (ft NGVD): (ft/hr): er to work area (ft):	Morrison Bridge (ft NGVD):	7.50 7.40 5.89 8.64 9.9 -0.0088 15 7.40	time: 0530 Low Tide time: 0846 High Tide date/time: 05-1-03/1605 USGS rate between 05/05/03 and 05/05/03 time: 0530 (USGS)
	Quality Observations o		om site (circle one): High	Average	Low
Observa Observa	able difference in Water able sheen in boomed ar able sheen outside boom nswer was yes to any of	ea? ied area?	on area? Observations and Corrective Ac	Yes Yes Yes tions, below	No No No
Approxi	er Controls imate location of boom (imate location of current	•	BTA.):	1+50 7+45 R	7+50 7+72 R
	horeline features moved		t monitoring event? ations and Corrective Actions,	Yes below.	No
Were pl	Documentation hotographs taken during did you note time, direction g reference numbers:	-		Yes Yes	No No
Perime Observa	ter Walk ations:				
Activitie	es on east beach include es on west beach include g of broken concrete, bo	: Slurry wall construc		+82.	
Animal	Species identified: Cana	adian geese, Osprey, N	Mallards, Gulls, and Crows.		
Correcti	ive Actions: -				
Notifica	ations Made:				
Monito	r's Signature:				

Erin Murphy

Monitor's Name:

Date:	05-06-03	Time: 1730	Time(s) of Low Tide:	600		
River	Stage and Obs	ervations				
		lorrison Bridge from gauge #142117	'20 (ft NGVD):	7.48	time: 0600	Low Tide
		ng correction factor (-0.1 ft) from Mo		7.38		
	gauge height at s	=		5.80	time: 0922	High Tide
		at site (= gauge height + 2.75)(ft NG	VD)	8.55		
		elevation at site (ft NGVD):		8.64	date/time:	05-5-03/846
River	level rise (+) or fa	all (-) rate (ft/hr):		-0.0037		
Appro	ximate distance	from water to work area (ft):		15		
Eleva	tion of water surf	ace at low tide (ft NGVD):		7.38	time: 0600	(USGS)
	-	vations of Willamette River				•
Qualit	ative turbidity obs	servation main channel away from s	ite (circle one): High	Average	Low	<u> </u>
Obser	vable difference	in Water Quality near construction a	rea?	Yes	No	
Obser	vable sheen in b	oomed area?		Yes	No	
Obser	vable sheen outs	side boomed area?		Yes	No	
f the	answer was yes	to any of the above, complete Obser	vations and Corrective Acti	ons, below.	•	
n-wa	ter Controls					-
Appro	ximate location of	of boom (STA. To STA.):		1+50	7+50	1
Appro	ximate location of	of current sheet pile operation (STA.):	7+72 R	7+75 R	
Habit	at					
		es moved or displaced since last mo	nitoring event?	Yes	No	Ī
		pictures and describe in Observation	-			
-						
	Documentatio			Voc	No	ı
		en during monitoring event?		Yes	No	ı
•	•	ne, direction, and location?		Yes	No	ł
Photo	log reference nu	mbers:				
Perim	neter Walk			_		
	vations:					-
		ch include: sheet pile construction.				-
		ch include: Slurry wall construction				-
Sheer	appeared on wa	ater after jet boat exited bay.				-
Anima	al Species identif	fied: Canadian geese, Osprey, Mall	ards, Gulls, and Crows.			-
Corre	ctive Actions:	·				
Cone	Clive Actions.					•
						-
						-
						-
Notifi	cations Made:					- -
Moni	tor's Signature:	· · · · · · · · · · · · · · · · · · ·				-
	or a <u>orginature.</u>		- <u>U</u>			-

Monitor's Name:

Date:	05-07-03	Time: 1730	Time(s) of Low Tide:	647		
River	Stage and Observation	ns			_	
River		- •	11720 (ft NGVD): Morrison Bridge (ft NGVD):	8.44 8.34	time: 0700	Low Tide
	gauge height at site (ft): gauge elevation at site (=	gauge height + 2.75)(ft i	NGVD)	6.40 9.15	time: 1000	High Tide
	ous staff gauge elevation level rise (+) or fall (-) rati			8.55 +0.0024	date/time:	05-6-03/0922
	ximate distance from wat tion of water surface at lo	` '		15 8.34	time: 0700	(USGS)
Water	r Quality Observations	of Willamette River			_	
	ative turbidity observation		m site (circle one): High	Average	Low	
Obser	vable difference in Water	Quality near construction	on area?	Yes	No	}
Obser	vable sheen in boomed a	rea?		Yes	No ·	
Obser	vable sheen outside boor	med area?		Yes	No	
If the a	answer was yes to any of	the above, complete Ob	oservations and Corrective Acti	ons, below.	-	•
	ter Controls					
	ximate location of boom	•		8+82	14+00	
Appro	ximate location of current	t sheet pile operation (S1	TA.):	7+75 R	8+34 R	
Habita						•
	shoreline features moved	*	monitoring event? tions and Corrective Actions, b	Yes	No	
•	•	and describe in Observa	tions and Corrective Actions, L	eiow.		
	Documentation					ī
	photographs taken during	-		Yes	No	
-	did you note time, directi	on, and location?	•	Yes	No	ŀ
Photo	log reference numbers:					
	neter Walk		~			
	vations:	0 " "				-
			activies on the east beach.			
Activit	ies on west beach includ	e: Sheet pile operations	S			-
		- · · - · · · · · · · · · · · · · · · ·				•
					_	-
Anima	al Species identified: Car	nadian geese, Osprey, M	fallards, Gulls, and Crows.			
Corre	ctive Actions:					•
						•
Notifi	cations Made:		<u> </u>			
Monit	or's Signature:				· · · · · ·	

Andrew Murphy and Mike Coenen

Monitor's Name:

Date:	05-08-03	Time: 1730	Time(s) of Low Tide:	744		
River	Stage and Observ	vations			_	
	•	ison Bridge from gauge #142		8.18	time: 0800	Low Tide
		correction factor (-0.1 ft) from	Morrison Bridge (ft NGVD):	8.08	4050	US-E-Tide
	gauge height at site	• •	NCVP)	NA NA	time: 1059	High Tide
	_	site (= gauge height + 2.75)(ft l ration at site (ft NGVD):	NGVD)	9.15	date/time:	05-7-03/1000
	level rise (+) or fall (· · · · · ·		NA	- date/unie.	03-7-00/1000
	• •	m water to work area (ft):		15	┥	
		e at low tide (ft NGVD):		NA	time: 0744	(Site)
Wate	r Quality Observat	tions of Willamette River			_	
Qualit	ative turbidity obser	vation main channel away from	n site (circle one): High	Average	Low	_
Obse	vable difference in '	Water Quality near construction	on area?	Yes	No	1
Obsei	vable sheen in boor	med area?		Yes	No	1
Obse	vable sheen outside	e boomed area?		Yes	No]
If the	answer was yes to a	any of the above, complete Ob	oservations and Corrective Action	ons, below.		-
	ter Controls				-	
		ooom (STA. To STA.):		8+82	14+00	1
Appro	ximate location of c	current sheet pile operation (S	TA.):	8+34 R	8+58 R	j
Habit	at					
Were	shoreline features r	moved or displaced since last	monitoring event?	Yes	No	
			tions and Corrective Actions, b	elow.		
Photo	Documentation					
Were	photographs taken	during monitoring event?		Yes	No	1
		direction, and location?		Yes	No	1
Photo	log reference numb	pers:				
Perin	neter Walk					
Obse	vations:					_
		include: Currently there are no				_
Activi	ies on west beach i	include: Sheet pile operation	<u> </u>			_
				-		_
	-					
Anima	al Species identified	: Canadian geese, Osprey, M	fallards, Gulls, and Crows.			_
Corre	ctive Actions:					
						- -
						_
_						-
Netif	estions Made:					- -
NOUT	cations Made:					-
						-
Moni	tor's <u>Signature:</u>	<u></u>				-

Monitor's Name:

Date:	05-12-03	Time: 1730	Time(s) of Low Tide:	1236		
River	Stage and Observation	ıs				
River	S river stage at Morrison E stage at site using correct pauge height at site (ft):		211720 (ft NGVD): Morrison Bridge (ft NGVD):	6.11 6.01 NA	time: 1230) Low Tide
	gauge elevation at site (=	gauge height + 2.75)(ft	NGVD)	NA NA	unite.	
	ous staff gauge elevation		,	6.58	(USGS)	5/11/03, 1130
	level rise (+) or fall (-) rate			-0.0228	(USGS)	Low Tide
	ximate distance from water	, ,		15		
Eleva	tion of water surface at lo	w tide (ft NGVD):		NA	time: 1230) (USGS)
Wate	Quality Observations	of Willamette River				_
Qualit	ative turbidity observation	main channel away fro	m site (circle one): High	Average	Low	
Obser	vable difference in Water	Quality near construction	on area?	Yes	No	7
Obser	vable sheen in boomed a	rea?		Yes	No	
Obser	vable sheen outside boon	ned area?		Yes	No	
If the	answer was yes to any of	the above, complete Ol	bservations and Corrective Action	ons, below.		
	ter Controls					_
• •	ximate location of boom (•		8+82	14+00	4
Appro	ximate location of current	sheet pile operation (S	TA.):	8+58 R	8+82 R	J
Habit	at					_
	shoreline features moved	•	_	Yes	No	
If yes,	document with pictures a	and describe in Observa	ations and Corrective Actions, b	elow.		
Photo	Documentation					_
Were	photographs taken during	monitoring event?		Yes	No	3
lf yes,	did you note time, direction	on, and location?		Yes	No]
Photo	log reference numbers:					
Perim	eter Walk					
	vations:					_
			activies on the east beach.			_
			 Boom was washed onto sho covered with algeal growth, una 			_
			ch. E & E will deploy absorben			_
	Vitami u	<u> </u>	on Lar L will deploy about born	<u>L'DOUT TOTTLE</u>	<u> </u>	
A :	d Cassies identified. Can	-di	Anthondo Collo and Conse			
Amma	ii Species identified: Can	adian geese, Osprey, it	Mallards, Gulls, and Crows.			-
_						
Сопе	ctive Actions: None tal	ken.				_
						_
						- -
						_
Notifi	cations Made:					_
					_ · _ _	_
Monit	or's Signature:					
	<u> </u>					

Monitor's Name: Erin Murphy

Date:	: (05-13-03	Time: 1730	Time(s) of Low Tide:	1332		
		Stage and Observations	s ridge from gauge #14211720) (ff NGVD):	6.17	time: 1330	Low Tide
			tion factor (-0.1 ft) from Morri		6.07	1	2017 7100
		luge height at site (ft):	,	,	NA	time:	
Staff	ga	uge elevation at site (= g	gauge height + 2.75)(ft NGVI	O)	NA	1	
Previ	ou	s staff gauge elevation a	at site (ft NGVD):		6.01	(USGS)	5/12/03, 1230
River	le	vel rise (+) or fall (-) rate	e (ft/hr):		+0.0064	(USGS)	Low Tide
		imate distance from wate	• • •		15	1	
Eleva	atic	on of water surface at lov	v tide (ft NGVD):		6.07	time: 1330	(USGS)
Wate	er (Quality Observations o	of Willamette River				
Quali	tat	tive turbidity observation	main channel away from site	(circle one): High	Average	Low	
Obse	·rv	able difference in Water	Quality near construction are	a?	Yes	No	
Obse	rv:	able sheen in boomed ar	rea?		Yes	No	
Obse	rv:	able sheen outside boom	ned area?		Yes	No	
If the	ar	nswer was yes to any of t	the above, complete Observa	ations and Corrective Action	ns, below.		-
In-wa	ate	er Controls					•
		imate location of boom (•		8+82	14+00	
Appro	ixc	imate location of current	sheet pile operation (STA.):		8+82 R	9+37	
Habit	tat	t					_
Were	s	horeline features moved	or displaced since last monit	oring event?	Yes	No	
If yes	i, C	document with pictures a	nd describe in Observations	and Corrective Actions, be	low.		
Phot	o I	Documentation					_
Were	e p	hotographs taken during	monitoring event?		Yes	No	
If yes	i, d	did you note time, direction	on, and location?		Yes	No	
		g reference numbers:					•
Dorin	~ ~	ter Walk					
-		ations:					
			e: Currently there are no activ	ies on the east beach.			•
		es on west beach include		sorbant boom was set in a	pproximate	location	•
of ob	se	rved sheen (west beach)).				•
R=Re	evi	ised					
		<u></u>			-	-	
Anim	al	Species identified: Cana	adian geese, Osprey, Mallard	ds, Gulls, and Crows.			•
Corre	ect	ive Actions: None tal	ken.				_
		<u> </u>					•
							=
							•
Nest		ations Made					
NOtif	1C	ations Made:				<u> </u>	=
	_						-
Moni	ito	r's Signature:	······································				

Monitor's Name:

Date:	05-14-03	Time: 1730	Time(s) of Low Tide:	1424		
River	Stage and Obser	vations				
	-	rison Bridge from gauge #1421	1720 (ft NGVD):	6.96	time: 1430	Low Tide
	_	correction factor (-0.1 ft) from I	· · · · · · · · · · · · · · · · · · ·	6.86	7	
Staff g	auge height at site	e (ft):	-	NA	time:	
Staff g	auge elevation at	site (= gauge height + 2.75)(ft N	NGVD)	NA		
Previo	us staff gauge elev	vation at site (ft NGVD):		6.07	(USGS)	5/13/03, 1330
River	level rise (+) or fall	(-) rate (ft/hr):		+0.0316	(USGS)	Low Tide
Appro	ximate distance fro	m water to work area (ft):		15		
Elevat	ion of water surfac	e at low tide (ft NGVD):		6.86	time: 1430	(USGS)
Water	Quality Observa	tions of Willamette River				_
Qualit	ative turbidity obse	rvation main channel away fron	n site (circle one): High	Average	Low]
Obser	vable difference in	Water Quality near construction	n area?	Yes	No]
Obser	vable sheen in boo	med area?		Yes	No	
Obser	vable sheen outsid	e boomed area?		Yes	No	
If the a	answer was yes to	any of the above, complete Ob	servations and Corrective Action	ons, below.		
	ter Controls					_
		boom (STA. To STA.):		8+82	14+00	
Appro	ximate location of o	current sheet pile operation (ST	A.):	9+37	9+92	
Habita	at					_
Were	shoreline features	moved or displaced since last r	nonitoring event?	Yes	No	
If yes,	document with pic	tures and describe in Observat	ions and Corrective Actions, b	elow.		
Photo	Documentation					_
Were	photographs taken	during monitoring event?		Yes	No	1
If yes,	did you note time,	direction, and location?		Yes	No	1
Photo	log reference numl	bers:				
Perim	eter Walk					
	vations:	-				
Activi	ties on east beach	include: Currently there are no	activies on the east beach.			_
Activit	ies on west beach	include: Sheet pile operations	S			_
Repai	red silt fence with s	staple gun.				_
*Unab	le to read staff gag	e due to algal growth on the ga	ige. E&E will clean the gage	as soon as	possible.	
				_		
Anima	I Species identified	d: Canadian geese, Osprey, M	allards, Gulls, and Crows.			-
C	otivo Antiona, B	tana takan				
Corre	ctive Actions: N	lone taken.			<u> </u>	_
						- -
						- -
Notifi	cations Made:					_
Monit	or's Signature:					-

Monitor's Name:

Date: 05-15-0	3	Time: 1730	Time(s) of Low	Tide: 1514		
River Stage ar	nd Observations	;				
			4211720 (ft NGVD):	7.96	time: 1530) Low Tide
River stage at s	site using correcti	ion factor (-0.1 ft) fro	om Morrison Bridge (ft NG)			
Staff gauge hei	• • •			NA	time:	
		auge height + 2.75)	(ft NGVD)	NA		
-	jauge elevation a			6.86	(USGS)	5/14/03, 1430
	(+) or fall (-) rate			-0.044	(USGS)	Low Tide
		r to work area (ft):		15		0 (11000)
Elevation of wa	iter surface at low	tide (ft NGVD):		7.86	time: 153	U(USGS)
Water Quality	Observations o	f Willamette River				_
Qualitative turb	idity observation	main channel away t	from site (circle one):	High Averaç	ge Low	
Observable diff	erence in Water	Quality near constru	ction area?	Yes	No	1
	en in boomed ar			Yes	No	
	een outside boom			Yes	No	
-			Observations and Correct	ive Actions, belo		
In-water Cont	rols					
Approximate lo	cation of boom (S	STA. To STA.):		8+82	14+00	7
• •	•	sheet pile operation	(STA.):	9+90	S) 10+46 (S)]
Habitat						_
	features moved	or displaced since la	ast monitoring event?	Yes	No	1
		•	rvations and Corrective Ac	ctions, below.		-
•	•					
Photo Docum		_				_
		monitoring event?		Yes	No	4
If yes, did you	note time, directio	n, and location?		Yes	No	
Photolog refere	ence numbers:					
Perimeter Wa	lk		•			
Observations:						
			no activies on the east be	each.		
Activities on we	est beach include	: Sheet pile operat	ions.			
*Unable to read	d staff gage due t	o algal growth on the	e gage. E & E will clean th	ne gage as soon	as possible.	
Animal Species	s identified: Cana	adian geese, Osprey	y, Mallards, Gulls, and Cro	ws.		
						_
S=Staked						
Corrective Acti	ons: None tak	en.				_
						-
						
						-
Notifications	Made:					_
						_
Monitor's Sig	nature:					

Monitor's Name:

Date:	05-19-03	Time: 1730	Time(s) of Low Tide:	528		
River	Stage and Observations				_	
	river stage at Morrison Brid		, ,	7.96	time: 0530	Low Tide
	stage at site using correction	n factor (-0.1 ft) from M	orrison Bridge (ft NGVD):	7.86	_	
_	auge height at site (ft):			NA	time:	
	auge elevation at site (= ga		3VD)	NA 0.44	4	E440400 0400
	us staff gauge elevation at			8.11	(USGS)	5/18/03, 0430
	evel rise (+) or fall (-) rate (t ximate distance from water	•		+0.006 15	(USGS)	Low Tide
	ion of water surface at low	` '		7.86	time: 0530	(USGS)
N ater	Quality Observations of	Willamette River			-	
	ative turbidity observation m		site (circle one): High	Average	Low	1
	-	·	, ,	_		!
	vable difference in Water Q	•	area?	Yes	No	
	vable sheen in boomed area			Yes	No	
	vable sheen outside boome			Yes	No	
f the a	inswer was yes to any of the	e above, complete Obse	ervations and Corrective Action	ons, below.	٠.	
n-wat	er Controls					_
	ximate location of boom (S1	,		8+82	14+00	
Appro:	ximate location of current sh	neet pile operation (STA):	10+46 (S)	11+00 (S)	
Habita	at					
Nere:	shoreline features moved o	r displaced since last mo	onitoring event?	Yes	No	
f yes,	document with pictures and	describe in Observatio	ns and Corrective Actions, b	elow.		
Photo	Documentation					
<i>N</i> ere	photographs taken during m	nonitoring event?		Yes	No	
	did you note time, direction	-		Yes	No	
•	og reference numbers:					J
3 a mi ma	eter Walk					
	vations:			-		
	ies on east beach include: (Currently there are no a	ctivities on the east beach			•
			Boom was resting on piling a	about 8" abo	ve the water	•
surfac		boom was reset by E.N.				•
	I. k	to the state of	E 0 E "			
Unab	e to read staff gage due to	algal growth on the gage	e. E & E will clean the gage :	as soon as p	ossible.	
Anima	Species identified: Canad	ian geese, Osprey, Mal	lards, Gulls, and Crows.			
2-04-1	l d					
S=Stal	Ked					
Correc	tive Actions: None take	n				
						•
Note:	At approximately 1515 a m	an fell out of his boat ne	ar the site shore. As he calle	d for help E.	Murphy	•
paged	A. Murphy to bring life vest	and oars and T. Feather	ers called 911. Man is ok.			
	· · · · ·					
Votific	cations Made:					,
		<u> </u>	·			,
Monite	or's Signature:					

Monitor's Name:

Date:	05-20-03	Time: 1730	Time(s) of Low Tide:	0622		
USGS River Staff of Staff of Previous River Appro	Stage and Observations inver stage at Morrison Brid stage at site using correction gauge height at site (ft): gauge elevation at site (= gapus staff gauge elevation at elevel rise (+) or fall (-) rate (fiximate distance from water iton of water surface at low the stage of the s	n factor (-0.1 ft) from Morris uge height + 2.75)(ft NGVE site (ft NGVD): t/hr): to work area (ft):	son Bridge (ft NGVD):	7.77 7.67 NA NA 7.86 -0.0076 15 7.67	time: 0630 time: (USGS) (USGS) time: 0630	5/19/03, 0530 Low Tide
	 Quality Observations of ative turbidity observation m 		(circle one): High	Average	Low	l
Obser Obser Obser	vable difference in Water Q vable sheen in boomed area vable sheen outside boome answer was yes to any of the	uality near construction are a? d area?	a?	Yes Yes Yes	No No No	
Appro	ter Controls ximate location of boom (ST ximate location of current sh	•		8+82 11+00 (S)	14+00 11+60 (S)	
	at shoreline features moved or document with pictures and	· ·	-	Yes low.	No	I
Were If yes,	Documentation photographs taken during m did you note time; direction log reference numbers:	=		Yes Yes	No No	
Obser Activit Activit	vations: ties on east beach include: ties on west beach include: ties on west beach include:	Sheet pile operations. Re	paired silt fence.	s soon as p	ossible.	
Anima	I Species identified: Turkey	√ Vultures, Canadian geese	, Osprey, Mallards, Gulls,	and Crows.		
S=Sta	ked					
Corre	ctive Actions: None take	n		· · · · · · · · · · · · · · · · · · ·		
Notifi	cations Made:					
Monit	or's Signature:					-

Monitor's Name:	Erin Murphy				
Date: 05-21-03	Time: 1730	Time(s) of Low Tide:	0728		
River Stage and Obs USGS river stage at M	ervations Iorrison Bridge from gauge #14211720) (ft NGVD):	6.99	1 time: 0730	Low Tide
•	ng correction factor (-0.1 ft) from Morri	•	6.89 NA	time:	
Previous staff gauge e	at site (= gauge height + 2.75)(ft NGVI elevation at site (ft NGVD):	0)	NA 7.67	(USGS)	5/20/03, 0630
• •	all (-) rate (ft/hr): from water to work area (ft): ace at low tide (ft NGVD):		-0.0312 15 6.89	(USGS) time: 0730	Low Tide
	, ,		0.03	Tunie. 0730	(0303)
-	vations of Willamette River servation main channel away from site	(circle one): High	Average	Low	
Observable difference	in Water Quality near construction are	a?	Yes	No	
Observable sheen in b			Yes	No	
Observable sheen outs	side boomed area? to any of the above, complete Observa	ations and Corrective Action	Yes ons. below.	No	
In-water Controls	,		,		
• •	of boom (STA. To STA.): of current sheet pile operation (STA.):		8+82 11+60 (S)	14+00 11+70 (S)	
	es moved or displaced since last monit pictures and describe in Observations	-	Yes elow.	No	
Photo Documentatio	n				
Were photographs tak	en during monitoring event?		Yes	No	
If yes, did you note tim Photolog reference nu	e, direction, and location? mbers:		Yes	No	
Perimeter Walk Observations:					
	ch include: Currently there are no activ			-	•
Activities on west beac	ch include: Sheet pile operations. Re	epaired slit tence.			
*Unable to read staff g	age due to algal growth on the gage.	E & E will clean the gage a	as soon as p	ossible.	
Animal Species identif	ied: Canadian geese, Osprey, Mallard	ls, Gulls, and Crows.			
S=Staked					
Corrective Actions:	None taken.				
Notifications Made:					
Monitor's Signature:					

Monitor's Name:

Date: 05-22-03	Time: 1730	Time(s) of Low Tid	le: 0830		
River Stage and Observations USGS river stage at Morrison Brick River stage at site using correction Staff gauge height at site (ft): Staff gauge elevation at site (= gather of the gauge elevation at River level rise (+) or fall (-) rate (*) Approximate distance from water Elevation of water surface at low	on factor (-0.1 ft) from Mo suge height + 2.75)(ft NG site (ft NGVD): ft/hr): to work area (ft):	orrison Bridge (ft NGVD)	7.31 7.21 NA NA 6.89 +0.0128 15 7.21	time: 0830 time: (USGS) (USGS) time: 0830	5/21/03, 0730 Low Tide
	,		,		(0000)
Water Quality Observations of Qualitative turbidity observation m		site (circle one): High	h Average	Low]
Observable difference in Water Q Observable sheen in boomed are: Observable sheen outside boome If the answer was yes to any of th	a? d area?		Yes Yes Yes Actions, below.	No No No	
In-water Controls Approximate location of boom (S` Approximate location of current sl		.):	8+82 11+70 (S	14+00) 12+10 (S)]
Habitat Were shoreline features moved o If yes, document with pictures and		=	Yes s, below.	No]
Photo Documentation Were photographs taken during n If yes, did you note time, direction Photolog reference numbers:	-		Yes Yes	No No	
Perimeter Walk Observations: Activities on east beach include: intercept trench was potholed to c supervised this activity. Activities on west beach include:	determine if contamination				- - - -
*Unable to read staff gage due to		_	age as soon as p	oossible.	
Animal Species identified: Canad S=Staked	dian geese, Osprey, Mai	latus, Guils, and Crows.	· · · ·		-
Corrective Actions: None take	n.				- -
Notifications Made:					- - -
Monitor's Signature:					

Monitor's Name:

Date: 05-27-0	03	Time: 1730	Time(s) of Lo	w Tide:	1344			
River Stage a	nd Observations	3						
•		idge from gauge #14	211720 (ft NGVD)		8.19	time: 1330	Llow Tide	
	_		n Morrison Bridge (ft N	IGVD).	8.09	1	LOW Flac	
-	eight at site (ft):	on actor (0.1 h) hon	Triviolison Bridge (it it		NA	time:		
	•	auge height + 2.75)(f	NGVD)		NA NA	unie.		
	, ,		(NGVD)			(HeCe)	E/26/02 1200	
	gauge elevation a				6.31	(USGS)	5/26/03, 1300	
	e (+) or fall (-) rate	• •			+0.0727	(USGS)	Low Tide	
	listance from wate				15	-		
Elevation of w	ater surface at low	tide (π NGVD):			8.09	time: 1330	(USGS)	
Water Quality	Observations o	f Willamette River						
Qualitative turi	oidity observation i	main channel away fro	om site (circle one):	High	Average	Low		
Observable di	fference in Water (Quality near construct	ion area?		Yes	No	- 1	
	een in boomed are	-			Yes	No		
							4	
	een outside boom				Yes	No	J	
If the answer v	vas yes to any of t	he above, complete C	bservations and Corre	ctive Actio	ns, below.			
In-water Con	trols							
Approximate l	ocation of boom (S	STA. To STA.):			10+25	just west of	f railroad bridge.	
Approximate le	ocation of current	sheet pile operation (\$	STA.):		12+10 (S)	12+54 (S)		
Habitat							_	
	e features moved	or displaced since las	t monitoring event?		Yes	No	1	
		•	•	A -4: L-		NO	J	
ii yes, docume	ent with pictures ar	ia describe in Observ	ations and Corrective	Actions, be	elow.			
Photo Docun	nentation						_	
Were photogra	aphs taken during	monitoring event?			Yes	No		
If yes, did you	note time, directio	n, and location?			Yes	No		
Photolog refer	ence numbers:	Camer	a A, Roll #4, Photo's 1	0-12	-	4		
Perimeter Wa	ılk	~						
Observations:	ast booch include:	Currently there are n	o activities on the acci	hooob			-	
Activities on e	ast beach include.	Currently there are r	o activities on the east	beach.			-	
Activities on w	est beach include:	Sheet pile operatio	ns. A dead Oncorhyn	chus myki	ss (Steelhea	ad), approxim	- nately	
			ar STA 10+35. Calls v				- 1	
-			lo request was made t					
	-				•			
						-		
*Unable to rea	d staff gage due to	algal growth on the	gage. E & E will clean	the gage a	as soon as p	ossible.		
Animal Specie	s identified: Steelh	nead Canadian dees	e, Osprey, Mallards, G	ulls Doves	and Crows			
,	o ladiminadi ottodii	ioda, canadan good	s, coprey, manaras, c	uno, Dovoc	7 Line 010110		-	
S=Staked								
Corrective Act	ions: Informed	NOAA and DEQ, See	e above					
							- -	
							_	
Notifications	Made:							
NOAA Law e							-	
							=	
Monitor's Sig	nature:							

Erin Murphy

Monitor's Name:

Date:	05-28-03	Time: 1730	Time(s) of Low Tide:	1426		
USGS River's Staff gi Staff gi Previou River la Approx Elevati	Stage and Observations river stage at Morrison Bricktage at site using correction auge height at site (ft): auge elevation at site (= gaus staff gauge elevation at sevel rise (+) or fall (-) rate (frimate distance from water to on of water surface at low the Quality Observations of the stage of the site of the stage	n factor (-0.1 ft) from Morris uge height + 2.75)(ft NGVD site (ft NGVD): t/hr): to work area (ft): ide (ft NGVD):	son Bridge (ft NGVD):	10.08 9.98 7.43 10.18 8.09 +0.0756 15 10.18	time: 1430 time: 1426 (USGS) (USGS) time: 1426	Low Tide 5/27/03, 1330 Low Tide
Qualita	tive turbidity observation m	ain channel away from site	(circle one): High	Average	Low	
Observ Observ	rable difference in Water Quable sheen in boomed area rable sheen outside boomed nswer was yes to any of the	a? d area?		Yes Yes Yes ns, below.	No No No	
	er Controls					
	timate location of boom (ST timate location of current sh			10+25 12+54 (S)		railroad bridge.
	it shoreline features moved or document with pictures and	•	-	Yes elow.	No	l
Were p	Documentation ohotographs taken during midid you note time, direction, og reference numbers:	-		Yes Yes	No No	
Perime Observ	eter Walk vations: ies on east beach include: (Currently there are no activi	ties on the east beach.	<u>-</u>	·	-
	es on west beach include: reviously identified as a see		een was observed during	sheet pile op	perations at	
is caus	High tide and spring runo ing fence to tear is various e to read staff gage due to	places.				
Anima	Species identified: Deer, C	anadian geese, Osprey, M	allards, Gulls, Doves and	Crows.		
S=Stal	ked					
Correc	tive Actions: None taker	1.				
Notific	ations Made:					
Monito	or's Signature:		_			

Monitor's Name:

Date: 05-29-03	Time: 1730	Time(s) of Low Tide:	1506		
River Stage and Observation USGS river stage at Morrison E River stage at site using correc Staff gauge height at site (ft): Staff gauge elevation at site (= Previous staff gauge elevation a River level rise (+) or fall (-) rate Approximate distance from wate Elevation of water surface at love	ridge from gauge #14 tion factor (-0.1 ft) fron gauge height + 2.75)(f at site (ft NGVD): e (ft/hr): er to work area (ft):	n Morrison Bridge (ft NGVD):	9.25 9.15 6.60 8.15 10.18 +0.08286 15 8.15	time: 1500 time: 1506 (USGS) time: 1506	Low Tide 5/28/03, 1426
Water Quality Observations of	of Willamette River				
Qualitative turbidity observation	main channel away fro	om site (circle one): High	Average	Low	
Observable difference in Water	Quality near construct	ion area?	Yes	No	
Observable sheen in boomed as	rea?		Yes	No	
Observable sheen outside boom	ned area?		Yes	No	
If the answer was yes to any of	the above, complete C	bservations and Corrective Action	ons, below.		
In-water Controls Approximate location of boom (Approximate location of current	•	STA.):	10+25 12+99 (S)		railroad bridge.
Habitat Were shoreline features moved If yes, document with pictures a	•	t monitoring event? ations and Corrective Actions, b	Yes elow.	No	
Photo Documentation Were photographs taken during If yes, did you note time, direction Photolog reference numbers:	-		Yes Yes	No No	
Perimeter Walk Observations:					-
Activities on east beach include	e: Currently there are n	o activities on the east beach.			, ,
	noff conditions on site.	ns. Repaired silt fence in areas Water level is past silt fence d		e and	
Animal Species identified:Cana	dian geese, Osprey, M	lallards, Gulls, Doves and Crow	S.		
S=Staked					
Corrective Actions: None tal	ken.				
Notifications Made:					
Monitor's Signature:					

Monitor's Name:

Date: 05-30-03	Time: 1730	Time(s) of Low Tide:	1548		
River Stage and Observation	ons				
USGS river stage at Morrison	n Bridge from gauge #1421	1720 (ft NGVD):	9.97	time: 1530	Low Tide
River stage at site using corr		Morrison Bridge (ft NGVD):	9.87		
Staff gauge height at site (ft):		101(0)	7.40	time: 1548	
Staff gauge elevation at site (NGVD)	10.15	(11000)	E/00/02 4E00
Previous staff gauge elevation			8.15	(USGS)	5/29/03, 1506
River level rise (+) or fall (-) range of the Approximate distance from w			+0.081633 15	4	
Elevation of water surface at			10.15	time: 1530	
Lievason of water sandoc at	iow tide (it ite v.b.).		10.10	Jo. 1000	
Water Quality Observation					
Qualitative turbidity observation	on main channel away fron	n site (circle one): High	Average	Low	
Observable difference in Wat	ter Quality near constructio	n area?	Yes	No	
Observable sheen in boomed	l area?		Yes	No	
Observable sheen outside bo	omed area?		Yes	No	
If the answer was yes to any	of the above, complete Ob	servations and Corrective Action	ons, below.		
In-water Controls					
Approximate location of boor	n (STA. To STA.):		10+25	just west of	railroad bridge.
Approximate location of curre	ent sheet pile operation (ST	A.):	13+37 (S)	13+90 (S)	
Habitat					
Were shoreline features mov	ed or displaced since last r	nonitoring event?	Yes	No	
	•	ions and Corrective Actions, b	elow.		
•					
Photo Documentation			Vaa	No	1
Were photographs taken dur			Yes	No No	
If yes, did you note time, dire Photolog reference numbers:			Yes	No	
Photolog reference numbers	•				
Perimeter Walk					
Observations:					
Activities on east beach inclu	ide: Currently there are no	activities on the east beach.			-
Activities on west beach inclu	ude: Sheet pile operations	. Repaired silt fence in areas	needed.		•
		Water level is past silt fence d		e and	=
is causing fence to tear is va	rious places.				
Animal Species identified:Ca	nadian deese Osprev Ma	llards, Gulls, Doves and Crow	5		
, unitial opposition in the control of the control					•
S=Staked					
Corrective Actions: None	taken.				-
					-
					-
Notifications Made:	-		 		-
		· · · - · - · - · - · · · · ·			-
Monitor's Signature:					

Wiolittoi 5 Naille.	illi Muiphy			
Date: 06-02-03	Time: 1730	Time(s) of Low Tide:	1728	
River stage at site using Staff gauge height at site Staff gauge elevation at Previous staff gauge elev River level rise (+) or fall	rison Bridge from gauge #1421 correction factor (-0.1 ft) from N e (ft): site (= gauge height + 2.75)(ft N vation at site (ft NGVD): (-) rate (ft/hr): om water to work area (ft):	Morrison Bridge (ft NGVD):	10.38	30 Low Tide er work hours 6/01/03, 1700
	tions of Willamette River rvation main channel away from	ı site (circle one): High	Average Low	_
Observable sheen in boo Observable sheen outsid			Yes No Yes No Yes No ons, below.]
In-water Controls Approximate location of of Approximate location of of the control of the contr	poom (STA. To STA.): current sheet pile operation (STA	A .):	10+25 just west 13+90 (S) 13+90 (S	of railroad bridge.
	moved or displaced since last m tures and describe in Observati	-	Yes No elow.	3
Photo Documentation Were photographs taken If yes, did you note time, Photolog reference numb			Yes No Yes No	-
Perimeter Walk Observations: Activities on east beach	include: Currently there are no a	activities on the east beach.		_
an additional 6". Drilling of E &E recommended to Focurrently working. Also real This was not done. Will	include: Crane was down. Shorews drilled at both the at the bath the crews drilled at both the at the bath the crews drilled at both the at the bath the silf fencing shows the commended that all bio-bags at talk with Remtech again in the ring runoff conditions on site. Very starious places.	oulk head and within the slurry ould be pulled in and left only in and silt fencing not in use be proming.	trench. In the areas crews are sulled up onto the site.	ts_
	d:Canadian geese, Osprey, Mall	lards, Gulls, Doves and Crows	S	_
S=Staked				
Corrective Actions: N	one taken.			
Notifications Made:				-
Monitor's Signature:			· · ·	

Monitor's Name:

Date: 06-03-03	Time: 1730	Time(s) of Low Tide:	1800	
River Stage and Observations USGS river stage at Morrison Bi River stage at site using correcti Staff gauge height at site (ft): Staff gauge elevation at site (= g Previous staff gauge elevation a River level rise (+) or fall (-) rate Approximate distance from wate Elevation of water surface at low Water Quality Observations o Qualitative turbidity observation of Observable difference in Water Observable sheen in boomed are Observable sheen outside boom	ridge from gauge #14/ on factor (-0.1 ft) from auge height + 2.75)(ft t site (ft NGVD): (ft/hr): r to work area (ft): r tide (ft NGVD): f Willamette River main channel away fro Quality near construct	211720 (ft NGVD): n Morrison Bridge (ft NGVD): t NGVD) om site (circle one): High	9.71 9.61 NA 10.38 -0.031 15 9.61 Average Yes Yes Yes	time: 1800 Low Tide time: After work hours (USGS) 6/02/03, 1730 time: 1730 Low No No No
If the answer was yes to any of t	he above, complete C	bservations and Corrective Action	ns, below.	· · · · · · · · · · · · · · · · · · ·
In-water Controls Approximate location of boom (S Approximate location of current s	•	BTA.):	10+25 13+90 (S)	just west of railroad bridge. 14+32 (S)
Habitat Were shoreline features moved If yes, document with pictures an	-		Yes elow.	No
Photo Documentation Were photographs taken during If yes, did you note time, directio Photolog reference numbers:	=		Yes Yes	No No
Perimeter Walk Observations:				-
Activities on east beach include	: Currently there are n	o activities on the east beach.		
E &E recommended to Remtech currently working. Also recomm This was not done. Will talk with	rilled at both the at the that the silt fencing s ended that all bio-bag Remtech again in the off conditions on site.	e bulk head and within the slurry hould be pulled in and left only ir s and silt fencing not in use be p	trench. the areas c ulled up onto	rews are the site.
Animal Species identified:Canad	lian geese, Osprey, M	fallards, Gulls, Doves and Crows	3.	
S=Staked				
Corrective Actions: None tak	en.			
Notifications Made:				
Monitor's Signature:				

Erin Murphy

Monitor's Name:

Date:	06	6-04-03	Time: 1730	Time(s) of Lov	w Tide:	1842		
River	· St	age and Obs	servations					
USGS	3 riv	ver stage at N	Norrison Bridge from gauge #14211	720 (ft NGVD):		9.12	time: 1900	Low Tide
River	sta	ige at site usi	ng correction factor (-0.1 ft) from Mo	orrison Bridge (ft NO	GVD):	9.02]	
Staff (gau	ige height at s	site (ft):			NA	time: After v	vork hours
			at site (= gauge height + 2.75)(ft NG	SVD)		NA		
Previo	ous	staff gauge e	elevation at site (ft NGVD):			9.61	(USGS)	6/03/03, 1800
River	lev	el rise (+) or f	fall (-) rate (ft/hr):			-0.0236		
			from water to work area (ft):			15]	
Eleva	tior	of water sur	face at low tide (ft NGVD):			9.02	USGS time:	1900
Wate	r Q	uality Obser	vations of Willamette River					_
Qualit	tativ	ve turbidity ob	servation main channel away from s	site (circle one):	High	Average	Low]
Obse	rvai	ble difference	in Water Quality near construction	area?		Yes	No	1
			oomed area?			Yes	No	
			side boomed area?			Yes	No	1
			to any of the above, complete Obse	ervations and Correc	rtive Action			4
		•	to any or the above, complete obse	aria Correc	AUTO ACIO	is, pelow.		
		Controls						
			of boom (STA. To STA.):			10+25		ailroad bridge.
Appro	nixo	nate location	of current sheet pile operation (STA	.):		14+38 (S)	14+50 (S)	J
Habit	at							_
Were	sh	oreline feature	es moved or displaced since last mo	nitoring event?		Yes	No	Ī
If yes,	, do	cument with	pictures and describe in Observatio	ns and Corrective A	ctions, be	low.		•
Photo	o D	ocumentatio	an					
			en during monitoring event?			Yes	No	1
			ne, direction, and location?			Yes		
•		•				163	No	1
PHOLO	ilog	reference nu	imbers.					
		er Walk		_				
Obse			0 11 11					_
ACTIVI	ities	s on east bea	ch include: Currently there are no ac	cuvities on the east	peacn.			-
Activit	ties	on west bear	ch include: Sheet pile operations.					- -
A nime	~I C	'naaiaa idaatii	iod:Canadian acces Oanroy Malla	rda Culla Davos a	nd Crous			
Amma	11 3	pecies identi	ied:Canadian geese, Osprey, Malla	rds, Guils, Doves a	na Crows.			-
S=Sta	ake	d					•	-
Сопе	ctiv	e Actions:	None taken.					_
								-
						··· ·· ·· ·		_
Notifi	icat	tions Made:						_
								-
Monif	tor	's Signature:						

Erin Murphy

Monitor's Name:

Date: 06-05-03	Time: 1730	Time(s) of Low	Tide:	1925		
River stage at site using co Staff gauge height at site (son Bridge from gauge #142 prrection factor (-0.1 ft) from ft): e (= gauge height + 2.75)(ft I tion at site (ft NGVD):) rate (ft/hr): water to work area (ft):	Morrison Bridge (ft NG	√ D):	1.55 1.45 NA NA 9.02	time: 1930 time: After w (USGS) USGS time:	ork hours 6/04/03, 1900
Water Quality Observation Qualitative turbidity observation	ons of Willamette River ation main channel away fror	n site (circle one):	High	Average	Low	1
Observable sheen in boom Observable sheen outside			ve Action	Yes Yes Yes s, below.	No No No	
In-water Controls Approximate location of bo Approximate location of cu	om (STA. To STA.): rrent sheet pile operation (ST	Γ Α .):		10+25 14+50 (S)	just west of r	ailroad bridge.
	oved or displaced since last res and describe in Observa	•	tions, bel	Yes ow.	No	1
Photo Documentation Were photographs taken d If yes, did you note time, di Photolog reference numbe	rection, and location?			Yes Yes	No No	
Perimeter Walk Observations: Activities on east beach in	clude: Currently there are no	activities on the east b	each.			- - -
Activities on west beach in	clude: Sheet pile operation: Canadian geese, Osprey, Ma		d Crows			-
S=Staked	-	mards, Gans, Boves and	<u> </u>			-
Corrective Actions: Nor	ne taken.					<u>.</u>
Notifications Made:					<u> </u>	- -
Monitor's Signature:						-

Monitor's Name:	Andrew Murphy				
Date: 06-09-03	Time: 1530	Time(s) of Low Tide:	1130		
River stage at site using Staff gauge height at some Staff gauge elevation and Previous staff gauge elevation in the River level rise (+) or for Approximate distance	forrison Bridge from gauge #142117 ng correction factor (-0.1 ft) from Mo site (ft): at site (= gauge height + 2.75)(ft NG levation at site (ft NGVD):	rrison Bridge (ft NGVD):	8.35 8.25 NA NA 9.02	time: 1130 time: Obscu (USGS) USGS time:	red by biological growth 6/04/03, 1900
-	vations of Willamette River servation main channel away from s	ite (circle one): High	Average	Low	1
Observable sheen in b			Yes Yes Yes ons, below.	No No No	
• •	of boom (STA. To STA.): of current sheet pile operation (STA.)):	10+25 14+50 (S)	just west of r	ailroad bridge.
	es moved or displaced since last mor pictures and describe in Observation	•	Yes elow.	No	1
	en during monitoring event? ne, direction, and location?		Yes Yes	No No	1
Perimeter Walk Observations: Activities on east beau	ch include: Currently there are no ac	tivities on the east beach.			-
					<u> </u>
Activities on west bear	ch (northwest comer of the site) inclu	ude: Sheet	pile operations	5.	-
Animal Species identifi	ied:Canadian geese, Osprey, Mallar	ds, Gulls, Doves and Crows	· · · · · · · · · · · · · · · · · · ·	·····	-
The Willamette cove h S=Staked	as no observable sheen. The contai	inment boom and absorbant	boom are sec	ured and anch	nored.
Corrective Actions:	None taken.				- -
Notifications Made:					- - -
Monitor's Signature:					

Monitor's Name:	Andrew Murphy			
Date: 06-10-03	Time: 1330	Time(s) of Low Tide:	*	
River stage at site using Staff gauge height at site Staff gauge elevation at Previous staff gauge ele River level rise (+) or fall	rrison Bridge from gauge #1421 correction factor (-0.1 ft) from f e (ft): site (= gauge height + 2.75)(ft N vation at site (ft NGVD): I (-) rate (ft/hr): om water to work area (ft):	Morrison Bridge (ft NGVD):	time: 1130 Low Tide time: Obscured by biole NA 9.02 (USGS) 6/04/03, NA USGS time: 1930	
-	ntions of Willamette River ervation main channel away fron	n site (circle one): High	Average Low	
Observable sheen in boo			Yes No Yes No Yes No ns, below.	
In-water Controls Approximate location of Approximate location of	boom (STA. To STA.): current sheet pile operation (ST	A.):	10+25 South of railroad bridge 14+50 (S) 15+ 03(S)	
	moved or displaced since last n tures and describe in Observati	<u>-</u>	Yes No low.	
Photo Documentation Were photographs taker If yes, did you note time, Photolog reference num			Yes No Yes No	
Perimeter Walk Observations: Activities on east beach	include: Currently there are no	activities on the east beach.		
Activities on west beach	(northwest corner of the site) in	clude: No activ	vities in beach area	
Animal Species identified	d:Canadian geese, Osprey, Mal	lards, Gulls, Doves, rabbits, and	i Crows.	
S=Staked * Not recorded as there Corrective Actions: N	was no activity near the river too	day	- -	
Notifications Made:				
Monitor's Signature:				

Monitor's Name:	Andrew Murphy			
Date: 06-11-03	Time: 17:45	Time(s) of Low Tide:	13:30 and 00:00)
River stage at site using Staff gauge height at site Staff gauge elevation at Previous staff gauge ele River level rise (+) or fall	rrison Bridge from gauge #14211 correction factor (-0.1 ft) from Mo e (ft): site (= gauge height + 2.75)(ft NO vation at site (ft NGVD): I (-) rate (ft/hr): om water to work area (ft):	orrison Bridge (ft NGVD):	8.75 NA time NA (USI	: 13:30 Low Tide : Obscured by biological growth GS) 6/04/03, 1900 GS time: 1930
	ations of Willamette River ervation main channel away from	site (circle one): High	Average Low	
Observable sheen in boo Observable sheen outsid			Yes No Yes No Yes No ns, below.	
In-water Controls Approximate location of Approximate location of	boom (STA. To STA.): current sheet pile operation (STA	.):		th of railroad bridge.
	moved or displaced since last mo ctures and describe in Observatio		Yes No	
Photo Documentation Were photographs taker If yes, did you note time, Photolog reference num			Yes No Yes No	
Perimeter Walk Observations: Activities on east beach	(south of bulkhead) include: Curr	rently there are no activities or	the east beach.	·
	(North of bulkhead) include:		vity in beach area.	
	d:Canadian geese, Osprey, Malla			
S=Staked	· -	-		
Corrective Actions:	NA			
Notifications Made:				
Monitor's Signature:				

Monitor's Name:

Andrew Murphy

Date: 06-12-03	Time: 17:45	Time(s) of Low Tide:	13:30 and 00	:00	
River stage at site using constaff gauge height at site (son Bridge from gauge #1421' prrection factor (-0.1 ft) from M ft): e (= gauge height + 2.75)(ft N tion at site (ft NGVD):) rate (ft/hr): water to work area (ft): at low tide (ft NGVD):	orrison Bridge (ft NGVD):	8.75 NA ti NA NA (1	me: 13:30 me: Obscur USGS) JSGS time:	ed by biological growth 6/04/03, 1900
•	ation main channel away from	site (circle one): High	Average L	.ow	
Observable sheen in boom Observable sheen outside			Yes N	lo lo	
In-water Controls Approximate location of bo Approximate location of cu	om (STA. To STA.): rrent sheet pile operation (STA	۸.):		South of railro	oad bridge.
	oved or displaced since last m res and describe in Observatio	<u>-</u>		10	I
Photo Documentation Were photographs taken of If yes, did you note time, d Photolog reference number Perimeter Walk	irection, and location?	ndrew Murphy role A3		lo	I
Observations: Activities on east beach (s	outh of bulkhead) include: Cu	rently there are no activities o	n the east beach	٦.	
	Canadian geese, osprey, gulls, lers, turkey vultures, were utiliz				
Notifications Made:				_	•
Monitor's Signature:					

Monitor's Name:

Andrew Murphy

Date: 06-16-03	Time: 17:45	Time(s) of Low Tide:	03:30 and 17:30	
River Stage and Observation USGS river stage at Morrison E River stage at site using correct Staff gauge height at site (ft): Staff gauge elevation at site (= Previous staff gauge elevation River level rise (+) or fall (-) rate Approximate distance from wat Elevation of water surface at lo	Bridge from gauge #142 stion factor (-0.1 ft) from gauge height + 2.75)(ft at site (ft NGVD): e (ft/hr): er to work area (ft):	Morrison Bridge (ft NGVD):	7.41 time: 17:30 7.31 NA time: Obsc NA (USGS) 120 7.31 USGS time	ured by biological growth 6/04/03, 1900
Water Quality Observations Qualitative turbidity observation		om site (circle one): High	Average Low]
Observable difference in Water Observable sheen in boomed a Observable sheen outside boor If the answer was yes to any of	rea? med area?		Yes No Yes No tions, below.	3
In-water Controls Approximate location of boom Approximate location of current	• •	:TA.):	10+25 South of rai 14+50 (S) 15+ 03(S)	Iroad bridge.
Habitat Were shoreline features moved If yes, document with pictures a	·	-	Yes No below.	J
Photo Documentation Were photographs taken during If yes, did you note time, directi Photolog reference numbers:	-		Yes No	3
Perimeter Walk Observations:			-	
Globules observed rising from approximately 50 yards souther tide (appproximately 17:30) and for the day.	ast of the end of the bul	khead. The sheen was observ	ed at approximately low	- -
Activities on west beach (North	of bulkhead) include:	No activity in beach area.		-
Animal Species identified:Cana	dian geese, osprey, gu	lls, doves, herons, turkey vultu	ires, barn swallows, coyot	e, and crows.
S=Staked				
Corrective Actions:				_ -
Notifications Made:				- -
Monitor's Signature:				_

Andrew Murphy

Monitor's Name:

Date	: (06-17-03	Time: 17:45	Time(s) of Low Tide:	04:00 and 18	:30	
USG: River Staff Staff Previ River Appro	S i si ga ga ou le oxi ntic	tage at site using co auge height at site (auge elevation at sit as staff gauge eleva evel rise (+) or fall (- imate distance from on of water surface	on Bridge from gauge #1421172 prrection factor (-0.1 ft) from Mon ft): e (= gauge height + 2.75)(ft NGV tion at site (ft NGVD):	rison Bridge (ft NGVD):	7.92 NA tir NA (U		ed by biological growth 6/04/03, 1900
		-	ation main channel away from sit	e (circle one): High	Average Lo	ow	
Obse Obse	rv:	able sheen in boom able sheen outside l			Yes N Yes N Yes N	0	
In-wa	ate	er Controls					
			om (STA. To STA.): rent sheet pile operation (STA.):			outh of railro 5+ 03(S)	ad bridge.
	sl	horeline features mo	oved or displaced since last mon res and describe in Observations		Yes N	0	
Were	р , с		uring monitoring event? rection, and location? rs:		Yes N Yes N		
Obse	rv	eter Walk ations:					
Activ	riti (es on east beach (s	outh of bulkhead) include: Curre	ntly there are no activities or	the east beach	l	
Activi	tie	es on west beach (N	orth of bulkhead) include:	No activity in beach area.			
Anim	al	Species identified:C	canadian geese, osprey, gulls, do	oves, herons, turkey vultures	, barn swallows	, and crows.	
S=St	ak	ed · -	-				
Corre	ct	ive Actions: NA		·····	•		
Notif	ic	ations Made:	 				
Moni	to	r's Signature:					

Monitor's Name:

Mike Coenen

Date:	06-18-03	Time: 17:45	Time(s) of Lo	w Tide:	05:30 and	19:00	
USG: River Staff Staff Previ River Appro	Stage and Observation S river stage at Morrison E stage at site using correct gauge height at site (ft): gauge elevation at site (= g ous staff gauge elevation a level rise (+) or fall (-) rate oximate distance from wate tion of water surface at love	tridge from gauge #14 tion factor (-0.1 ft) from gauge height + 2.75)(t at site (ft NGVD): e (ft/hr): er to work area (ft):	m Morrison Bridge (ft	NGVD):	7.76 7.66 NA NA NA 120 7.66	time: 19:00 time: Obscu (USGS) USGS time:	red by biological growth 6/04/03, 1900
	r Quality Observations of tative turbidity observation		om site (circle one):	High	Average	Low]
Obse Obse	rvable difference in Water rvable sheen in boomed ar rvable sheen outside boon answer was yes to any of	rea? ned area?		ective Act	Yes Yes Yes ions, below	No No No	
Appro	ater Controls eximate location of boom (eximate location of current		STA.):		10+25 14+50 (S)	South of railr	oad bridge.
	tat shoreline features moved , document with pictures a			e Actions,	Yes below.	No]
Were	o Documentation photographs taken during did you note time, direction olog reference numbers:	_			Yes Yes	No No	
Obse	neter Walk rvations: ities on east beach (south	of bulkhead) include:	Currently there are no	activities	on the east	beach.	- -
Activ	ties on west beach (North	of bulkhead) include:	No activity in beacl	n area.			_
Anim	al Species identified:Cana	dian geese, osprey, g	ulls, doves, herons, tu	rkey vultu	res, barn sv	vallows, and cr	ows.
S=St	aked	-					
Corre	ective Actions: NA				· •		- -
Notif	ications Made:						- -
Moni	tor's Signature:						-

Monitor's Name:

Mike Coenen

Date: 06-19-03	Time: 17:45	Time(s) of Low	Tide:	06:00 and	20:00	
River Stage and Observation USGS river stage at Morrison E River stage at site using correct Staff gauge height at site (ft): Staff gauge elevation at site (= Previous staff gauge elevation at River level rise (+) or fall (-) rate Approximate distance from wate Elevation of water surface at low	Bridge from gauge #14 tion factor (-0.1 ft) fron gauge height + 2.75)(f at site (ft NGVD): e (ft/hr): er to work area (ft):	n Morrison Bridge (ft N	IGVD):	7.64 7.54 NA NA 7.76 0.12 120 7.54	time: 20:00 time: Obscur (USGS) USGS time:	ed by biological growth 6/04/03, 1900
Water Quality Observations of Qualitative turbidity observation		om site (circle one):	High	Average	Low	
Observable difference in Water Observable sheen in boomed at Observable sheen outside boon If the answer was yes to any of	Quality near construct rea? ned area?	ion area?	-	Yes Yes Yes	No No No	
In-water Controls Approximate location of boom (Approximate location of current		STA.):		10+25 14+50 (S)	South of railro	oad bridge.
Habitat Were shoreline features moved If yes, document with pictures a	•	=	Actions, I	Yes below.	No	
Photo Documentation Were photographs taken during If yes, did you note time, direction Photolog reference numbers:	-			Yes Yes	No No	
Perimeter Walk Observations:		-				
Globules rising from the river bo yards SE of the bulkhead. E&E construction related as they we hours from the last attempt to d	took digital photograp te observed approxima	hs to document the shately 630 feet from she	een. The	e globules d vities and a	lid not appear pproximately 2	
Activities on west beach (North	of bulkhead) include:	No activity in beach	area.			- •
Animal Species identified:Cana	dian geese, osprey, gu	ulls, doves, herons, tur	key vultur	res, barn sw	vallows, coyote	and crows.
S=Staked						
Corrective Actions:						
Notifications Made:			-			· ·
Monitor's Signature:						

Monitor's Name: Andre	w Murphy			
Date: 06-23-03	Time: All day	Time(s) of Low Tide:	11:00	
River Stage and Observation USGS river stage at Morriso River stage at site using con Staff gauge height at site (ft) Staff gauge elevation at site Previous staff gauge elevation River level rise (+) or fall (-) of Approximate distance from versions.	on Bridge from gauge #1421 rection factor (-0.1 ft) from N): (= gauge height + 2.75)(ft N on at site (ft NGVD): rate (ft/hr) using Morrison Bri	lorrison Bridge (ft NGVD):	4.88 4.78 NA NA NA -2.86 40	time: 11:00 Low Tide Below staff gauge
Water Quality Observation Qualitative turbidity observat		site (circle one): High	Average	Low
Observable difference in Wa Observable sheen in boomed Observable sheen outside bo If the answer was yes to any	d area? comed area?		Yes Yes	No No No
In-water Controls Approximate location of book Approximate location of current		A.):	5+50	50 feet beyond STA 1+52 2+50
Habitat Were shoreline features mov If yes, document with picture	•	<u> </u>		No
Photo Documentation Were photographs taken du If yes, did you note time, dire Photolog reference numbers	ection, and location?		Yes Yes	No No
Perimeter Walk Observations: Sheet pile driving operation r	moved to the south end and	WCMC has moved the co	ntainment boon	n
Activities on west beach (No	orth of bulkhead) include:	No activity in beach area.		
Animal Species identified:Ca	nadian geese, osprey, gulls,	doves, herons, turkey vul	tures, barn swa	allows, coyote, and crows.
S=Staked			•	-
Corrective Actions:				
Notifications Made:				
Monitor's Signature:				

Monitor's Name:

Andrew Murphy

Date: 06-24-03	Time: All day	Time(s) of Low Tide:	11:00	
River Stage and Observation USGS river stage at Morrison River stage at site using corn Staff gauge height at site (ft): Staff gauge elevation at site (Previous staff gauge elevation River level rise (+) or fall (-) ra Approximate distance from w	n Bridge from gauge #142 ection factor (-0.1 ft) from = gauge height + 2.75)(ft l n at site (ft NGVD): ate (ft/hr) using Morrison B	Morrison Bridge (ft NGVD): NGVD)	4.62 4.52 NA NA NA -0.36	time: 11:00 Low Tide Below staff gauge Not significant as water is low.
Water Quality Observation: Qualitative turbidity observation		n site (circle one): High	Average	Low
Observable difference in Wat Observable sheen in boomed Observable sheen outside bo If the answer was yes to any	area? omed area?		Yes Yes Yes Actions, below	No No No
In-water Controls Approximate location of boom Approximate location of curre	•	TA.):	5+50 15+00	50 feet beyond STA 1+52
Habitat Were shoreline features mov If yes, document with pictures	•	-	Yes s, below.	No
Photo Documentation Were photographs taken duri If yes, did you note time, direct Photolog reference numbers:	ction, and location?		Yes Yes	No No
Perimeter Walk Observations:				
Activities on west beach (Nor		No activity in beach area.		
Animal Species identified:Car	nadian geese, osprey, guli	s, herons, bam swallows, a	nd crows.	
S=Staked				
Corrective Actions:				
Notifications Made:				
Monitor's Signature:				

Monitor's Name:	Andrew Murphy			
Date: 06-25-03	Time: All day	Time(s) of Low Tide:	0	
•	Morrison Bridge from gauge #142 ing correction factor (-0.1 ft) from	, ,	See Note NA NA]
Staff gauge elevation Previous staff gauge River level rise (+) or	at site (= gauge height + 2.75)(ft elevation at site (ft NGVD): fall (-) rate (ft/hr) using Morrison from water to work area (ft):	,	NA NA NA 70	Below staff gauge Not significant as water is low.
Water Quality Obse	vations of Willamette River	om site (circle one): High	Average	Low
Observable difference Observable sheen in Observable sheen ou	e in Water Quality near construct boomed area?	tion area?	Yes Yes Yes	No No No
	of boom (STA. To STA.); of current sheet pile operation (\$	STA.):	5+50 15+00	50 feet beyond STA 1+52
	res moved or displaced since las pictures and describe in Observ	•	Yes s, below.	No
	ken during monitoring event? ne, direction, and location? umbers:		Yes Yes	No No
lense were taken as r	rainbow sheen observed approx requested by DEQ. ey appear to be about half the size		Photos thro	ough filter
Activities on west bea	ch (North of bulkhead) include: ified:Canadian geese, osprey, gu	No activity in beach area.		
S=Staked				·
Corrective Actions:				
Notifications Made:				
Monitor's Signature	:			

Monitor's Name:

Andrew Murphy

Date: 06-26-03	Time(s) of Low Tide:	13:30	
River Stage and Observations USGS river stage at Morrison Bridge from gauge #14. River stage at site using correction factor (-0.1 ft) from Staff gauge height at site (ft): Staff gauge elevation at site (= gauge height + 2.75)(ft) Previous staff gauge elevation at site (ft NGVD): River level rise (+) or fall (-) rate (ft/hr) using Morrison Approximate distance from water to work area (ft):	n Morrison Bridge (ft NGVD): t NGVD)	5.31 NA NA NA NA NA NA 90	Below staff gauge Not significant as water is low.
Water Quality Observations of Willamette River Qualitative turbidity observation main channel away fro	om site (circle one): High	Average	Low
Observable difference in Water Quality near construct Observable sheen in boomed area? Observable sheen outside boomed area? If the answer was yes to any of the above, complete Comple		Yes Yes Yes tions, below.	No No No
In-water Controls Approximate location of boom (STA. To STA.): Approximate location of current sheet pile operation (STA.)	STA.):	5+50 Bulkhead	9+00
Habitat Were shoreline features moved or displaced since las If yes, document with pictures and describe in Observ	<u>-</u>	Yes below.	No
Photo Documentation Were photographs taken during monitoring event? If yes, did you note time, direction, and location? Photolog reference numbers:		Yes Yes	No No
Perimeter Walk Observations: WCMC moved the containment boom (AM) to encom	pass bulkhead area for last atte	empt at refus	sals.
Activities on west beach (North of bulkhead) include:	No activity in beach area.		·
Animal Species identified:Canadian geese, osprey, gu	ulls, and crows.		
S=Staked			
Corrective Actions:			
Notifications Made:			
Monitor's Signature:			

Monitor's Name:	Andrew Murphy			
Date: 06-30-03	Time: All day	Time(s) of Low Tide	9:36	
River stage at site using Staff gauge height at staff gauge elevation Previous staff gauge et River level rise (+) or 1	Morrison Bridge from gauge #142 ng correction factor (-0.1 ft) from	Morrison Bridge (ft NGVD NGVD)	5.09 4.99 NA NA NA NA 70	Below staff gauge Not significant as water is lo
	vations of Willamette River servation main channel away fro	m site (circle one): High	Average	Low
Observable sheen in b			Yes Yes Yes Actions, below	No No
• •	of boom (STA. To STA.): of current sheet pile operation (S	TA.):	5+50 Bulkhead	9+00
	es moved or displaced since last pictures and describe in Observa	-	Yes ns, below.	No
	en during monitoring event? ne, direction, and location?		Yes Yes	No No
Perimeter Walk Observations: Began excavated sour	rce area (interceptor trench) and	transporting spoils into disp	posal cell within	the barrier
Activities on west bear	ch (North of bulkhead) include:	No activity in beach area.		
Animal Species identif	îed:Canadian geese, osprey, gu	lls, and crows.		
S=Staked		-		
Corrective Actions:				
Notifications Made:				
Monitor's Signature:				

Monitor's Name:

Andrew Murphy

River Stage and Observations USGS river stage at Momison Bridge from gauge #14211720 (ft NGVD): 4.52 Kiter Stage at site using correction factor (-0.1 ft) from Momison Bridge (ft NGVD): NA Staff gauge height at site (ft): Staff gauge height at site (ft): Staff gauge height at site (ft): NA River level rise (-) or fall (-) raid (ft/ft) using Morrison Bridge gauge: Approximate distance from water to work area (ft): Water Quality Observations of Willamette River Qualitative turbidity observation main channel away from site (circle one): High Average Observable difference in Water Quality near construction area? Observable sheen in boorned area? Observable sheen outside boomed area? Yes No Observable sheen outside boomed area? If the answer was yes to any of the above, complete Observations and Corrective Actions, below. In water Controls Approximate location of boom (STA, To STA): Approximate location of orcernt sheet pile operation (STA.): Habitat Were shoreline features moved or displaced since last monitoring event? If yes, document with pictures and describe in Observations and Corrective Actions, below. Photo Documentation Were photographs taken during monitoring event? If yes, did you note time, direction, and location? Photo Documentation Activities included removing rocks and gravel from intercepter trench. No Notifications Made: Notifications Made:	Date: 07/01/03	Time: All day	Time(s) of Low Tide:		
Qualitative turbidity observation main channel away from site (circle one): High Average Low Observable difference in Water Quality near construction area? Observable sheen in boomed area? If the answer was yes to any of the above, complete Observations and Corrective Actions, below. In-water Controls Approximate location of boom (STA. To STA.): Approximate location of current sheet pile operation (STA.): Habitat Were shoreline features moved or displaced since last monitoring event? If yes, document with pictures and describe in Observations and Corrective Actions, below. Photo Documentation Were photographs taken during monitoring event? If yes, did you note time, direction, and location? Photolog reference numbers: Perimeter Walk Observations: Activities included removing rocks and gravel from intercepter trench. Activities on west beach (North of bulkhead) include: No activity in beach area. Animal Species identified: Osprey, gulls, and crows. Notifications Made: Notifications Made:	USGS river stage at Morrison River stage at site using corre Staff gauge height at site (ft): Staff gauge elevation at site (= Previous staff gauge elevation River level rise (+) or fall (-) raf	Bridge from gauge #1421 ction factor (-0.1 ft) from M gauge height + 2.75)(ft No at site (ft NGVD): te (ft/hr) using Morrison Bri	lorrison Bridge (ft NGVD):	A.52 NA NA NA NA NA	
Observable sheen in boomed area? Observable sheen outside boomed area? If the answer was yes to any of the above, complete Observations and Corrective Actions, below. In-water Controls Approximate location of boom (STA. To STA.): Approximate location of current sheet pile operation (STA.): Habitat Were shoreline features moved or displaced since last monitoring event? If yes, document with pictures and describe in Observations and Corrective Actions, below. Photo Documentation Were photographs taken during monitoring event? If yes, did you note time, direction, and location? Photolog reference numbers: Perimeter Walk Observations: Activities included removing rocks and gravel from intercepter trench. Activities on west beach (North of bulkhead) include: No activity in beach area. Animal Species identified: Osprey, gulls, and crows. Notifications Made: Notifications Made:			site (circle one): High	Average Low	
Approximate location of boom (STA. To STA.): Approximate location of current sheet pile operation (STA.): Habitat Were shoreline features moved or displaced since last monitoring event? Yes No If yes, document with pictures and describe in Observations and Corrective Actions, below. Photo Documentation Were photographs taken during monitoring event? Yes No Photolog reference numbers: Perimeter Walk Observations: Activities included removing rocks and gravel from intercepter trench. Activities on west beach (North of bulkhead) include: No activity in beach area. Animal Species identified: Osprey, gulls, and crows. S=Staked Corrective Actions: Notifications Made:	Observable sheen in boomed a Observable sheen outside boo	area? med area?		Yes No Yes No	
Were shoreline features moved or displaced since last monitoring event? Yes If yes, document with pictures and describe in Observations and Corrective Actions, below. Photo Documentation Were photographs taken during monitoring event? If yes, did you note time, direction, and location? Photolog reference numbers: Perimeter Walk Observations: Activities included removing rocks and gravel from intercepter trench. Activities on west beach (North of bulkhead) include: No activity in beach area. Animal Species identified: Osprey, gulls, and crows. S=Staked Corrective Actions: Notifications Made:	Approximate location of boom		A.):	5+50 50 fee	t beyond STA 1+52
Were photographs taken during monitoring event? If yes, did you note time, direction, and location? Photolog reference numbers: Perimeter Walk Observations: Activities included removing rocks and gravel from intercepter trench. Activities on west beach (North of bulkhead) include: No activity in beach area. Animal Species identified: Osprey, gulls, and crows. S=Staked Corrective Actions: Notifications Made:	Were shoreline features move	•	-		
Observations: Activities included removing rocks and gravel from intercepter trench. Activities on west beach (North of bulkhead) include: No activity in beach area. Animal Species identified: Osprey, gulls, and crows. S=Staked Corrective Actions: Notifications Made:	Were photographs taken durin				
Animal Species identified: Osprey, gulls, and crows. S=Staked Corrective Actions: Notifications Made:		s included removing rocks	and gravel from intercepte	r trench.	<u></u>
S=Staked Corrective Actions: Notifications Made:	Activities on west beach (North	h of bulkhead) include:	No activity in beach area.		·
Notifications Made:	Animal Species identified: Osp	orey, gulls, and crows.			
Notifications Made:	S=Staked				
	Corrective Actions:				
	Notifications Made:				
Monitor's Signature:	Monitor's Signature:				

Monitor's Name: And	rew Murphy			
Date: 07/02/03	Time: all day	Low Tide during	g work activity:	17:45
River stage at site using co Staff gauge height at site (Staff gauge elevation at sit Previous staff gauge eleva	son Bridge from gauge #1421 orrection factor (-0.1 ft) from f ft): e (= gauge height + 2.75)(ft N tion at site (ft NGVD):) rate (ft/hr) using Morrison B	Morrison Bridge (ft No	4.57 4.47 NA NA NA -0.15	Low Tide Below staff gauge
Water Quality Observation Qualitative turbidity observation	ons of Willamette River ation main channel away from	n site (circle one):	High Average	Low
Observable difference in W Observable sheen in boom Observable sheen outside	Vater Quality near constructioned area?	n area?	Yes Yes Yes	No No No
In-water Controls Approximate location of bo Approximate location of cu	oom (STA. To STA.): rrent sheet pile operation (ST	'A.):	5+50 completed	50 feet beyond STA 1+52
	oved or displaced since last r	•	Yes Actions, below.	No
Photo Documentation				
Were photographs taken d If yes, did you note time, di Photolog reference number	irection, and location?		Yes Yes	No No
Perimeter Walk Observations:				
Near beach activities today	were focused on the excava	tion of source area fro	om the interceptor tr	ench.
Activities on west beach (N	North of bulkhead) include:	No activity in beach a	irea.	
Animal Species identified:	Osprey, gulls, and crows.			
S=Staked				
Corrective Actions:				
Notifications Made:				
Monitor's Signature:				

Andrew Murphy

Monitor's Name:

Date: 07/03/03	Time(s) of Low Tide:	1	
River Stage and Observations USGS river stage at Morrison Bridge from gauge #1421172 River stage at site using correction factor (-0.1 ft) from Mor Staff gauge height at site (ft): Staff gauge elevation at site (= gauge height + 2.75)(ft NGV Previous staff gauge elevation at site (ft NGVD): River level rise (+) or fall (-) rate (ft/hr) using Morrison Bridg Approximate distance from water to work area (ft):	rison Bridge (ft NGVD): /D)	3.51 3.41 NA NA NA -1.16	Low Tide Below staff gauge
Water Quality Observations of Willamette River Qualitative turbidity observation main channel away from sit	e (circle one): High	Average	Low
Observable difference in Water Quality near construction at Observable sheen in boomed area? Observable sheen outside boomed area? If the answer was yes to any of the above, complete Observable		Yes Yes Yes ctions, below.	No No No
In-water Controls Approximate location of boom (STA. To STA.): Approximate location of current sheet pile operation (STA.):	:	5+50 completed	50 feet beyond STA 1+52
Habitat Were shoreline features moved or displaced since last mor If yes, document with pictures and describe in Observations	-	Yes , below.	No
Photo Documentation Were photographs taken during monitoring event? If yes, did you note time, direction, and location? Photolog reference numbers:		Yes Yes	No No
Perimeter Walk Observations: Activities on west beach (North of bulkhead) include: No	activity in beach area.		
Animal Species identified: Osprey, gulls, and crows.			
S=Staked			
Corrective Actions:			 -
Notifications Made:			
Monitor's Signature:			

Monitor's Name. Andrew Murphy				
Date: 07/7/03	Time(s) of Low 1	Tide:	9:00	
River Stage and Observations USGS river stage at Morrison Bridge from gauge River stage at site using correction factor (-0.1 ft Staff gauge height at site (ft): Staff gauge elevation at site (= gauge height + 2 Previous staff gauge elevation at site (ft NGVD): River level rise (+) or fall (-) rate (ft/hr) using Mor Approximate distance from water to work area (ft	t) from Morrison Bridge (ft NG :.75)(ft NGVD) rtison Bridge gauge:		3.32 3.22 NA NA NA NA NA	Low Tide Below staff gauge Not significant as water level is very low
Water Quality Observations of Willamette Riv	ver			
Qualitative turbidity observation main channel aw	vay from site (circle one): H	High .	Average	Low
Observable difference in Water Quality near con- Observable sheen in boomed area? Observable sheen outside boomed area? If the answer was yes to any of the above, complete			Yes Yes Yes ons, below.	No No No
In-water Controls		_		
Approximate location of boom (STA. To STA.): Approximate location of current sheet pile operat	tion (STA.):	-	5+50 completed	50 feet beyond STA 1+52
Habitat Were shoreline features moved or displaced since If yes, document with pictures and describe in Ol	_		Yes elow.	No
Photo Documentation Were photographs taken during monitoring even If yes, did you note time, direction, and location? Photolog reference numbers:			Yes Yes	No No
Perimeter Walk Observations:				
Activities on west beach (North of bulkhead) incli	ude: No activity in beach a	геа.		
Animal Species identified: Osprey, American Ke	strel (small falcon), gulls, and	d crows.		
S=Staked				
Corrective Actions:				
Notifications Made:				
Monitor's Signature:				

Andrew Murphy

Monitor's Name:

Date: 07/08/03	Time(s) of Low Tide:	0	
River Stage and Observations USGS river stage at Morrison Bridge from gau River stage at site using correction factor (-0.2) Staff gauge height at site (ft): Staff gauge elevation at site (= gauge height +1) Previous staff gauge elevation at site (ft NGVI River level rise (+) or fall (-) rate (ft/hr) using N Approximate distance from water to work area	1 ft) from Morrison Bridge (ft NGVD): 2.75)(ft NGVD) D): Morrison Bridge gauge:	3.74 3.64 NA NA 0.42 50	Low Tide Below staff gauge Not significant as water level is very low.
Water Quality Observations of Willamette Qualitative turbidity observation main channel		Average	Low
Observable difference in Water Quality near conservable sheen in boomed area? Observable sheen outside boomed area? If the answer was yes to any of the above, cor		Yes Yes Yes ctions, below.	No No No
In-water Controls Approximate location of boom (STA. To STA. Approximate location of current sheet pile ope	•	5+50 completed	50 feet beyond STA 1+52
Habitat Were shoreline features moved or displaced s If yes, document with pictures and describe in	=	Yes , below.	No
Photo Documentation Were photographs taken during monitoring ev If yes, did you note time, direction, and locatio Photolog reference numbers:		Yes Yes	No No
Perimeter Walk Observations: Activities on west beach (North of bulkhead) in	nclude: No activity in beach area.		
Animal Species identified: Osprey, American	Kestrel (small falcon), gulls, and crow	S	
S=Staked			
Corrective Actions:			
Notifications Made:			
Monitor's Signature:			

Monitor's Name. Andrew Murphy						
Date: 07/09/03	Time(s) of Lov	/Tide: 11	:30			
River Stage and Observations USGS river stage at Morrison Bridge from gauge River stage at site using correction factor (-0.1 ft) Staff gauge height at site (ft): Staff gauge elevation at site (= gauge height + 2.) Previous staff gauge elevation at site (ft NGVD): River level rise (+) or fall (-) rate (ft/hr) using Morr Approximate distance from water to work area (ft)) from Morrison Bridge (ft N 75)(ft NGVD) ison Bridge gauge:	NA NA NA	50 A Be A Not	v Tide low staff gaug s significant as	e water level is very	lov
Water Quality Observations of Willamette Riv	er					
Qualitative turbidity observation main channel awa	ay from site (circle one):	High Av	erage Lov	٧		
Observable difference in Water Quality near cons Observable sheen in boomed area? Observable sheen outside boomed area? If the answer was yes to any of the above, complete		Ye Ye Ye ective Actions	s No			
In-water Controls	•					
Approximate location of boom (STA. To STA.):	(CTA):			feet beyond S	TA 1+52	
Approximate location of current sheet pile operati	on (STA.):	СО	mpleted			
Habitat Were shoreline features moved or displaced since If yes, document with pictures and describe in Ob-	-	Ye Actions, belo				
Photo Documentation						
Were photographs taken during monitoring event	?	Ye	s No			
If yes, did you note time, direction, and location? Photolog reference numbers:		Ye	s No			
Perimeter Walk Observations: Activities on west beach (North of bulkhead) inclu	ide: No activity in beach	area.				
						
Animal Species identified: Osprey, American Kes	strel (small falcon), gulls, a	nd crows.				
S=Staked						
Corrective Actions:						
Notifications Made:						
Monitor's Signature:						

Monitor's Name:

Andrew Murphy

Date: 07/14/03	Time(s) of Low Tide	:	
River Stage and Observations USGS river stage at Morrison Bridge from gau River stage at site using correction factor (-0.1 Staff gauge height at site (ft): Staff gauge elevation at site (= gauge height + Previous staff gauge elevation at site (ft NGVD River level rise (+) or fall (-) rate (ft/hr) using More Approximate distance from water to work area	ft) from Morrison Bridge (ft NGVD 2.75)(ft NGVD))): orrison Bridge gauge:	4.52 4.42 NA NA NA NA NA 50	Low Tide Below staff gauge Not significant as water level is very low.
Water Quality Observations of Willamette F	River		
Qualitative turbidity observation main channel a	away from site (circle one): High	Average	Low
Observable difference in Water Quality near co Observable sheen in boomed area? Observable sheen outside boomed area? If the answer was yes to any of the above, com		Yes Yes Yes Actions, below.	No No No
In-water Controls			
Approximate location of boom (STA. To STA.): Approximate location of current sheet pile oper		5+50 completed	50 feet beyond STA 1+52
Habitat			
Were shoreline features moved or displaced si If yes, document with pictures and describe in	<u>-</u>	Yes ns, below.	No
Photo Documentation			
Were photographs taken during monitoring even	ent?	Yes	No
If yes, did you note time, direction, and location Photolog reference numbers:	?	Yes	No
Perimeter Walk Observations: Activities on west beach (North of bulkhead) in	clude: No activity in beach area.		
Animal Species identified: Osprey, American K	Kestrel (small falcon), gulls, and cro	ws.	
S=Staked			
Corrective Actions:			
		. –	
Notifications Made:		-	
Monitor's Signature:			



Erosion and Sediment Transport Control Measure Forms

Date:04-01-03 Time: 1730
Name of E & E monitor: Erin E. Murphy

Current weather conditions: Cool, high winds, off and on rain

Last 24 Hr weather conditions: Same as above

DEQ BMP Designation	BMP Name	Inspection Time(s)	Date and Time of last Inspection Time(s)	Minimum Inspection Frequency	Description of BMP	Observations (Effectiveness)
BMP #4	Preserve Existing Vegetation	9:00, 17:10	First Inspection	Weekly or after .5 inch or greater rain event.	Preserving natural habitat to the greatest extent possible. Preserve in clumps or as individual trees. Using safety fence or flagging to delineate prior to commencing work. Delineate work extent.	Limited clearing in work areas. No adverse impacts observed.
BMP # 8	Plastic Sheeting of stockpiles or temporary protection of disturbed areas	1700	First Inspection	Weekly or after .5 inch or greater rain event.	Ensure plastic sheeting is covering all soil stockpiles. Look for rips tears on the surface and runoff seeps under matting. Plastic should be anchored w/10' grid spacing using sandbags or suitable system. Minimum 12" overlap of all seams required. Barrier required @ toe of stock pile.	Contractor begins covering soil stockpiles at 1650. Sand bags were unavailable and ends were buried instead.
BMP # 11	Gravel Construction Entrance	1710	First Inspection	Daily	There should be no sediment, rock or woodchip on paved surfaces.	Wash area is still being established. Crews have swept area.
BMP #13	Dust Control	900	First Inspection	Continual	Apply water or controls as needed. Keep vehicular traffic in current construction areas and established access routes.	Rain has been off and on throughout the day therefore water controls are not necessary.
BMP # 28	Compost Sock			Weekly or after .5 inch or greater rain event.	May be utilized as a check dam and is not efficient for turbidity or suspended solids. When utilized as check dam, they must be staked. May have down stream skirt for undercut protection.	
вмР	Bio-filter	1130, 1700	First Inspection	Weekly or after .5 inch or greater rain event.	Bags should be overlapped by 6". 2 stakes should support each bag. Check for undercutting or end-flow. Inspect for tears and damage. Sediment should not be greater then 1/3 the height of bag.	Bags are being used in conjunction with the silt fence. Stakes are installed behind fence only. Bags are installed correctly. We have recommended that Remtech use either check dams or straw along southern edge of fence, where foot path has formed.
BMP #29	Sediment Fence	1130, 1700	First Inspection	Weekly or after .5 inch or greater rain event.	Ensure bottom of fence is not visible and fence in taut. Posts should be a maximum of 6' apart. At termination point, fence should be facing uphill. Fence should not exceed 3'and storage should not exceed 1.5'. Check for channel formation parallel to fence, look for under cutting and clogged geotextile.	Fence secured with staples rather than woven pockets. Posts installed down slope, as shown on the plans.
BMP Type 1 temporary	Tire Wash	0830, 1130, 1700	First Inspection	Weekly or more frequent during high demand	Dimensions: 40' long x 10' wide X 18" sump with 50' run out. Ensure wash water drainage/collection and treatment system is functioning and/or frequent water replacement.	Construction crews are utilizing existing tire wash. Excess water will be discharged on-site in an upland area.
вмР	Mobile Fueling of Vehicles and Heavy Equipment		Has not been observed.	During fueling operations	Ensure compliance with local and state regulations. Request documentation for 49 CFR 178 for DOT 406. Specifics too numerous to summarize, refer to BMP.	Has not been observed.

Signature of monitor:		

Date:04-02-03

Name of E & E monitor:____ Erin E. Murphy
Current weather conditions:_ Cool with high winds, off and on rain.

Last 24 Hr weather conditions Same as above

DEQ BMP Designation	BMP Name	Inspection Time(s)	Date and Time of last Inspection Time(s)	Minimum Inspection Frequency	Description of BMP	Observations (Effectiveness)
BMP #4	Preserve Existing Vegetation	Continual		Weekly or after .5 inch or greater rain event.	Preserving natural habitat to the greatest extent possible. Preserve in clumps or as individual trees. Using safety fence or flagging to delineate prior to commencing work. Delineate work extent.	Limited clearing in work areas. No adverse impacts observed.
BMP#8	Plastic Sheeting of stockpiles or temporary protection of disturbed areas	1600		Weekly or after .5 inch or greater rain event.	Ensure plastic sheeting is covering all soil stockpiles. Look for rips tears on the surface and runoff seeps under matting. Plastic should be anchored w/10' grid spacing using sandbags or suitable system. Minimum 12" overlap of all seams required. Barrier required @ toe of stock pile.	No changes from previous inspection.
BMP # 11	Gravel Construction Entrance	1500		Daily	There should be no sediment, rock or woodchip on paved surfaces.	Area should be swept at end of day. Contractor plans to place rip-rap at entrance.
BMP #13	Dust Control	N/A		Continual	Apply water or controls as needed. Keep vehicular traffic in current construction areas and established access routes.	N/A (Rain)
BMP # 28	Compost Sock	N/A (not installed)		Weekly or after .5 inch or greater rain event.	May be utilized as a check dam and is not efficient for turbidity or suspended solids. When utilized as check dam, they must be staked. May have down stream skirt for undercut protection.	Not installed.
ВМР	Bio-filter	1400		Weekly or after .5 inch or greater rain event.	Bags should be overlapped by 6". 2 stakes should support each bag. Check for undercutting or end-flow. Inspect for tears and damage. Sediment should not be greater then 1/3 the height of bag.	Check dams have been placed along southern edge of fence.
BMP #29	Sediment Fence	1600		Weekly or after .5 inch or greater rain event.	Ensure bottom of fence is not visible and fence in taut. Posts should be a maximum of 6' apart. At termination point, fence should be facing uphill. Fence should not exceed 3'and storage should not exceed 1.5'. Check for channel formation parallel to fence, look for under cutting and clogged geotextile.	Temporary fence continues to be installed.
BMP Type 1 temporary	Tire Wash	1600	,	Weekly or more frequent during high demand	Dimensions: 40' long x 10' wide X 18" sump with 50' run out. Ensure wash water drainage/collection and treatment system is functioning and/or frequent water replacement.	Recommend pumping of collected water and removal of sediments.
ВМР	Mobile Fueling of Vehicles and Heavy Equipment			During fueling operations		Mobile fueling will take place at 5:30am, today's fueling not observed.

Signature of monitor:	

Date: 04-03-03

Name of E & E monitor:____ Erin E. Murphy

Current weather conditions: Cool with high winds, off and on rain.

Last 24 Hr weather condition: Same as above

DEQ BMP Designation	BMP Name	Inspection Time(s)	Date and Time of last Inspection Time(s)	Minimum Inspection Frequency	Description of BMP	Observations (Effectiveness)
BMP #4	Preserve Existing Vegetation	Continual		Weekly or after .5 inch or greater rain event.	Preserving natural habitat to the greatest extent possible. Preserve in clumps or as individual trees. Using safety fence or flagging to delineate prior to commencing work. Delineate work extent.	Limited clearing in work areas. No adverse impacts observed.
BMP#8	Plastic Sheeting of stockpiles or temporary protection of disturbed areas	0700, 930, 1130, 1600, 1710		Weekly or after .5 inch or greater rain event.	Ensure plastic sheeting is covering all soil stockpiles. Look for rips lears on the surface and runoff seeps under matting. Plastic should be anchored w/10' grid spacing using sandbags or suitable system. Minimum 12" overlap of all seams required. B	No changes from previous inspection.
BMP # 11	Gravel Construction Entrance	0700, 1130, 1300, 1600, 1710	1	Daily	There should be no sediment, rock or woodchip on paved surfaces.	Area should be swept at end of day. Contractor placed 2"-4" quarry spalls on gravel enterance near decon pad.
BMP #13	Dust Control	N/A		Continual	Apply water or controls as needed. Keep vehicular traffic in current construction areas and established access routes.	Rained off and on.
BMP # 28	Compost Sock	N/A (not installed)		Weekly or after .5 inch or greater rain event.	May be utilized as a check dam and is not efficient for turbidity or suspended solids. When utilized as check dam, they must be staked. May have down stream skirt for undercut protection.	Not installed.
ВМР	Bio-filter	0700, 1130, 1600		Weekly or after .5 inch or greater rain event.	Bags should be overlapped by 6". 2 stakes should support each bag. Check for undercutting or end-flow. Inspect for tears and damage. Sediment should not be greater then 1/3 the height of bag.	Additional bio-bags need to be placed along silt fence where missing.
BMP #29	Sediment Fence	0700, 1600		Weekly or after .5 inch or greater rain event.	Ensure bottom of fence is not visible and fence in taut. Posts should be a maximum of 6' apart. At termination point, fence should be facing uphill. Fence should not exceed 3'and storage should not exceed 1.5'. Check for channel formation parallel to	Fence is in good condition.
BMP Type 1 temporary	Tire Wash	0700, 1130, 1600		Weekly or more frequent during high demand	Dimensions: 40' long x 10' wide X 18" sump with 50' run out. Ensure wash water drainage/collection and treatment system is functioning and/or frequent water replacement.	Recommend pumping of collected water and removal of sediments.
ВМР	Mobile Fueling of Vehicles and Heavy Equipment	630		During fueling operations	Ensure compliance with local and state regulations. Request documentation for 49 CFR 178 for DOT 406. Specifics too numerous to summarize, refer to BMP.	Did not use secondary measures to collect drips beneath nozzles. Spill kits were located nearby, and three personnel supervised the activity.

Signature of monitor:	

Date: 04-07-03

Name of E & E monitor: Erin E. Murphy

Current weather conditions: Cool with moderate winds, off and on rain.

Last 24 Hr weather condition: Same as above

DEQ BMP Designation	BMP Name	Inspection Time(s)	Date and Time of last Inspection Time(s)	Minimum Inspection Frequency	Description of BMP	Observations (Effectiveness)
BMP #4	Preserve Existing Vegetation	Continual		Weekly or after .5 inch or greater rain event.	Preserving natural habitat to the greatest extent possible. Preserve in clumps or as individual trees. Using safety fence or flagging to delineate prior to commencing work. Delineate work extent.	Limited clearing in work areas. No adverse impacts observed.
BMP # 8	Plastic Sheeting of stockpiles or temporary protection of disturbed areas	0700, 0850, 1030, 1230, 1700		Weekly or after .5 inch or greater rain event.	Ensure plastic sheeting is covering all soil stockpiles. Look for rips tears on the surface and runoff seeps under matting. Plastic should be anchored w/10' grid spacing using sandbags or suitable system. Minimum 12" overlap of all seams required. B	No changes from previous inspection. Remtech needs to provide sand bags.
BMP # 11	Gravel Construction Entrance	0700, 0850, 1030, 1230, 1700		Daily	There should be no sediment, rock or woodchip on paved surfaces.	Area needs to be swept.
BMP #13	Dust Control	N/A		Continual	Apply water or controls as needed. Keep vehicular traffic in current construction areas and established access routes.	Rained off and on.
BMP # 28		N/A (not installed)		Weekly or after .5 inch or greater rain event.	May be utilized as a check dam and is not efficient for turbidity or suspended solids. When utilized as check dam, they must be staked. May have down stream skirt for undercut protection.	Not installed.
ВМР	Bio-filter	0730, 1030, 1620		Weekly or after .5 inch or greater rain event.	Bags should be overlapped by 6". 2 stakes should support each bag. Check for undercutting or end-flow. Inspect for tears and damage. Sediment should not be greater then 1/3 the height of bag.	Contractor is completing installation of bio- bags along silt fence.
BMP #29	Sediment Fence	0830, 1420		Weekly or after .5 inch or greater rain event.	Ensure bottom of fence is not visible and fence in taut. Posts should be a maximum of 6' apart. At termination point, fence should be facing uphill. Fence should not exceed 3'and storage should not exceed 1.5'. Check for channel formation parallel to	Additional fence was installed to approximate station 4 + 00. Fence is not buried, taunt, or wrapped/overlapped at ends were a new section of fence is added.
BMP Type 1 temporary	Tire Wash	0700, 0850, 1030, 1230, 1700		Weekly or more frequent during high demand	Dimensions: 40' long x 10' wide X 18" sump with 50' run out. Ensure wash water drainage/collection and treatment system is functioning and/or frequent water replacement.	Recommend pumping of collected water and removal of sediments. This has not been done to date.
DMD	Mobile Fueling of Vehicles and Heavy Equipment	N/A		During fueling operations	Ensure compliance with local and state regulations. Request documentation for 49 CFR 178 for DOT 406. Specifics too numerous to summarize, refer to BMP.	There were no mobile fueling activities today.

Signature of monitor:	

Date: 04-09-03

Name of E & E monitor: Erin E. Murphy

Current weather conditions: Cool with moderate winds.

Last 24 Hr weather conditions Off and on rain.

DEQ BMP Designation	BMP Name	Inspection Time(s)	Date and Time of last Inspection Time(s)	Minimum Inspection Frequency	Description of BMP	Observations (Effectiveness)
BMP #4	Preserve Existing Vegetation	Continual		Weekly or after .5 inch or greater rain event.	Preserving natural habitat to the greatest extent possible. Preserve in clumps or as individual trees. Using safety fence or flagging to delineate prior to commencing work. Delineate work extent.	Spoke with Troy Feathers, They will start crushing the vegetation were feasible and attempt to leave roots in place.
BMP # 8	Plastic Sheeting of stockpiles or temporary protection of disturbed areas	0730, 1200, 1715		Weekly or after .5 inch or greater rain event.	Ensure plastic sheeting is covering all soil stockpiles. Look for rips tears on the surface and runoff seeps under matting. Plastic should be anchored w/10' grid spacing using sandbags or suitable system. Minimum 12" overlap of all seams required. B	No changes from previous inspection.
BMP # 11	Gravel Construction Entrance	1500		Daily	There should be no sediment, rock or woodchip on paved surfaces.	Area around decon and work trailers recently swept.
BMP #13	Dust Control			Continual	Apply water or controls as needed. Keep vehicular traffic in current construction areas and established access routes.	No rain, moderate winds. No evidence of dust.
BMP # 28	Compost Sock	N/A (not installed)		Weekly or after .5 inch or greater rain event.	May be utilized as a check dam and is not efficient for turbidity or suspended solids. When utilized as check dam, they must be staked. May have down stream skirt for undercut protection.	Not installed.
ВМР	Bio-filter	1330		Weekly or after .5 inch or greater rain event.	Bags should be overlapped by 6". 2 stakes should support each bag. Check for undercutting or end-flow. Inspect for tears and damage. Sediment should not be greater then 1/3 the height of bag.	Bags around survey stakes were put back into place.
BMP #29	Sediment Fence	0800, 1330		Weekly or after .5 inch or greater rain event.	Ensure bottom of fence is not visible and fence in taut. Posts should be a maximum of 6' apart. At termination point, fence should be facing uphill. Fence should not exceed 3'and storage should not exceed 1.5'. Check for channel formation parallel to	Silt fence was repaired in areas needed at 0945.
BMP Type 1 temporary	Tire Wash	1530		Weekly or more frequent during high demand	Dimensions: 40' long x 10' wide X 18" sump with 50' run out. Ensure wash water drainage/collection and treatment system is functioning and/or frequent water replacement.	Tire wash pumped at 1600.
ВМР	Mobile Fueling of Vehicles and Heavy Equipment	630		During fueling operations	Ensure compliance with local and state regulations. Request documentation for 49 CFR 178 for DOT 406. Specifics too numerous to summarize, refer to BMP.	A. Murphy supervised mobile fueling activities. No adverse impacts observed.

Signature of monitor:	

Date: 04-10-03

Name of E & E monitor: Current weather conditions: Last 24 Hr weather conditions:

DEQ BMP Designation	BMP Name	Inspection Time(s)	Date and Time of last Inspection Time(s)	Minimum Inspection Frequency	Description of BMP	Observations (Effectiveness)
BMP #4	Preserve Existing Vegetation	Continual		Weekly or after .5 inch or greater rain event.	Preserving natural habitat to the greatest extent possible. Preserve in clumps or as individual trees. Using safety fence or flagging to delineate prior to commencing work. Delineate work extent.	Minimal vegetation removed.
BMP # 8	Plastic Sheeting of stockpiles or temporary protection of disturbed areas			Weekly or after .5 inch or greater rain event.	Ensure plastic sheeting is covering all soil stockpiles. Look for rips tears on the surface and runoff seeps under matting. Plastic should be anchored w/10' grid spacing using sandbags or suitable system. Minimum 12" overlap of all seams required. B	No changes from previous inspection.
BMP # 11	Gravel Construction Entrance			Daily ,	There should be no sediment, rock or woodchip on paved surfaces.	Area around decon and work trailers recently swept.
BMP #13	Dust Control			Continual	Apply water or controls as needed. Keep vehicular traffic in current construction areas and established access routes.	Rain, moderate winds. No evidence of dust.
BMP # 28	Compost Sock	N/A (not installed)	,	Weekly or after .5 inch or greater rain event.	May be utilized as a check dam and is not efficient for turbidity or suspended solids. When utilized as check dam, they must be staked. May have down stream skirt for undercut protection.	Not installed.
ВМР	Bio-filter			Weekly or after .5 inch or greater rain event.	Bags should be overlapped by 6". 2 stakes should support each bag. Check for undercutting or end-flow. Inspect for tears and damage. Sediment should not be greater then 1/3 the height of bag.	
BMP #29	Sediment Fence			Weekly or after .5 inch or greater rain event.	Ensure bottom of fence is not visible and fence in taut. Posts should be a maximum of 6' apart. At termination point, fence should be facing uphill. Fence should not exceed 3'and storage should not exceed 1.5'. Check for channel formation parallel to	Rain event was not greater than .5 inch, however, a Visual inspection was performed. Silt fence integrity appears to b satisfactory.
BMP Type 1 temporary	Tire Wash			Weekly or more frequent during high demand	Dimensions: 40' long x 10' wide X 18" sump with 50' run out. Ensure wash water drainage/collection and treatment system is functioning and/or frequent water replacement.	
ВМР	Mobile Fueling of Vehicles and Heavy Equipment	630		During fueling operations	Ensure compliance with local and state regulations. Request documentation for 49 CFR 178 for DOT 406. Specifics too numerous to summarize, refer to BMP.	A. Murphy supervised mobile fueling activities. No change from previous inspection.

Date: 04-14-03

Name of E & E monitor: Erin Murphy
Current weather conditions: High winds (15), Scattered showers

Last 24 Hr weather conditions: Rain and wind.

DEQ BMP Designation	BMP Name	Inspection Time(s)	Date and Time of last Inspection Time(s)	Minimum Inspection Frequency	Description of BMP	Observations (Effectiveness)
BMP #4	Preserve Existing Vegetation	Continual		Weekly or after .5 inch or greater rain event.	Preserving natural habitat to the greatest extent possible. Preserve in clumps or as individual trees. Using safety fence or flagging to delineate prior to commencing work. Delineate work extent.	Vegetation was cleared from STA 16 + 00 - 14+00. Spoke with Troy and requested vegetation be crushed were feasible.
BMP#8	Plastic Sheeting of stockpiles or temporary protection of disturbed areas	0730, 1500			Ensure plastic sheeting is covering all soil stockpiles. Look for rips tears on the surface and runoff seeps under matting. Plastic should be anchored w/10' grid spacing using sandbags or suitable system. Minimum 12" overlap of all seams required. B	No changes from previous inspection.
BMP # 11	Gravel Construction Entrance	0730, 1500		Daily	There should be no sediment, rock or woodchip on paved surfaces.	Area looks good.
BMP #13	Dust Control	1500		Continual	Apply water or controls as needed. Keep vehicular traffic in current construction areas and established access routes.	Some scattered showers, high winds. No evidence of dust.
BMP # 28	Compost Sock	N/A (not installed)		Weekly or after .5 inch or greater rain event.	May be utilized as a check dam and is not efficient for turbidity or suspended solids. When utilized as check dam, they must be staked. May have down stream skirt for undercut protection.	Not installed.
ВМР	Bio-filter	1500		Weekly or after .5 inch or greater rain event.	Bags should be overlapped by 6". 2 stakes should support each bag. Check for undercutting or end-flow. Inspect for tears and damage. Sediment should not be greater then 1/3 the height of bag.	Additional bags have been ordered and will be placed at west beach.
BMP #29	Sediment Fence	0730, 1300, 1500		Weekly or after .5 inch or greater rain event.	Ensure bottom of fence is not visible and fence in taut. Posts should be a maximum of 6' apart. At termination point, fence should be facing uphill. Fence should not exceed 3'and storage should not exceed 1.5'. Check for channel formation parallel to	Silt fence integrity along the east beach appears to be satisfactory. New fencing was installed along west beach from STA 14 + 00 through 15+ 00. New fence is adequate.
BMP Type 1 temporary	Tire Wash	0730, 1300, 1500		Weekly or more frequent during high demand	Dimensions: 40' long x 10' wide X 18" sump with 50' run out. Ensure wash water drainage/collection and treatment system is functioning and/or frequent water replacement.	Needs to be pumped.
ВМР	Mobile Fueling of Vehicles and Heavy Equipment	630		During fueling operations	Ensure compliance with local and state regulations. Request documentation for 49 CFR 178 for DOT 406. Specifics too numerous to summarize, refer to BMP.	A. Murphy supervised mobile fueling activities. No change from previous inspection.

Signature of monitor:				

Date: 04-15-03

Name of E & E monitor: Erin Murphy
Current weather conditions: slight winds, Few showers
Last 24 Hr weather conditions: Scattered showers and wind.

DEQ BMP Designation	BMP Name	Inspection Time(s)	Date and Time of last Inspection Time(s)	Minimum Inspection Frequency	Description of BMP	Observations (Effectiveness)
BMP #4	Preserve Existing Vegetation	Continual		Weekly or after .5 inch or greater rain event.	Preserving natural habitat to the greatest extent possible. Preserve in clumps or as individual trees. Using safety fence or flagging to delineate prior to commencing work. Delineate work extent.	Limited clearing in work areas.
BMP#8	Plastic Sheeting of stockpiles or temporary protection of disturbed areas	0730, 100, 1245, 1500, 1710		Weekly or after .5 inch or greater rain event.	Ensure plastic sheeting is covering all soil stockpiles. Look for rips tears on the surface and runoff seeps under matting. Plastic should be anchored w/10' grid spacing using sandbags or suitable system. Minimum 12" overlap of all seams required. B	No changes from previous inspection.
BMP # 11	Gravel Construction Entrance	0730, 100, 1245, 1500, 1710		Daily	There should be no sediment, rock or woodchip on paved surfaces.	Area looks good.
BMP #13	Dust Control	1115 ·		Continual	Apply water or controls as needed. Keep vehicular traffic in current construction areas and established access routes.	Some scattered showers, high winds. No evidence of dust.
BMP # 28	Compost Sock	N/A (not installed)		Weekly or after .5 inch or greater rain event.	May be utilized as a check dam and is not efficient for turbidity or suspended solids. When utilized as check dam, they must be staked. May have down stream skirt for undercut protection.	Not installed.
вмР	Bio-filter	8,001,115		Weekly or after .5 inch or greater rain event.	Bags should be overlapped by 6". 2 stakes should support each bag. Check for undercutting or end-flow. Inspect for tears and damage. Sediment should not be greater then 1/3 the height of bag.	Spoke with Troy Feathers and requested bio bags be places as soon as possible along the silt fence at the west beach. Additional bags have been ordered and should be here tomorrow.
BMP #29	Sediment Fence	0800, 1030		Weekly or after .5 inch or greater rain event.	Ensure bottom of fence is not visible and fence in taut. Posts should be a maximum of 6' apart. At termination point, fence should be facing uphill. Fence should not exceed 3'and storage should not exceed 1.5'. Check for channel formation parallel to	Silt fence integrity along the east and west beaches appear to be satisfactory.
BMP Type 1 temporary	Tire Wash	0730, 100, 1245, 1500, 1710		Weekly or more frequent during high demand	Dimensions: 40' long x 10' wide X 18" sump with 50' run out. Ensure wash water drainage/collection and treatment system is functioning and/or frequent water replacement.	Needs to be pumped.
ВМР	Mobile Fueling of Vehicles and Heavy Equipment	630		During fueling operations	Ensure compliance with local and state regulations. Request documentation for 49 CFR 178 for DOT 406. Specifics too numerous to summarize, refer to BMP.	A. Murphy supervised mobile fueling activities. No change from previous inspection.

Signature of monitor:	•

Date: 04-16-03

Name of E & E monitor: Erin Murphy
Current weather conditions: slight winds, sun

Last 24 Hr weather conditions: Scattered showers and wind.

DEQ BMP Designation	BMP Name	Inspection Time(s)	Date and Time of last Inspection Time(s)	Minimum Inspection Frequency	Description of BMP	Observations (Effectiveness)
BMP #4	Preserve Existing Vegetation	Continual		Weekly or after .5 inch or greater rain event.	Preserving natural habitat to the greatest extent possible. Preserve in clumps or as individual trees. Using safety fence or flagging to delineate prior to commencing work. Delineate work extent.	Limited clearing in work areas.
BMP # 8	Plastic Sheeting of stockpiles or temporary protection of disturbed areas	0610, 1030, 1530, 1710		Weekly or after .5 inch or greater rain event.	Ensure plastic sheeting is covering all soil stockpiles. Look for rips tears on the surface and runoff seeps under matting. Plastic should be anchored w/10' grid spacing using sandbags or suitable system. Minimum 12" overlap of all seams required. B	No changes from previous inspection.
BMP # 11	Gravel Construction Entrance	1030		Daily	There should be no sediment, rock or woodchip on paved surfaces.	Area needs to be swept, will recommend to Remtech.
BMP #13	Dust Control	1530		Continual	Apply water or controls as needed. Keep vehicular traffic in current construction areas and established access routes.	Some scattered showers, high winds. No evidence of dust.
BMP # 28	Compost Sock	N/A (not installed)		Weekly or after .5 inch or greater rain event.	May be utilized as a check dam and is not efficient for turbidity or suspended solids. When utilized as check dam, they must be staked. May have down stream skirt for undercut protection.	Not installed.
вмР	Bio-filter	800, 1030		Weekly or after .5 inch or greater rain event.	Bags should be overlapped by 6". 2 stakes should support each bag. Check for undercutting or end-flow. Inspect for tears and damage. Sediment should not be greater then 1/3 the height of bag.	No change from precious inspection.
BMP #29	Sediment Fence	0800, 1030	1	Weekly or after .5 inch or greater rain event.	Ensure bottom of fence is not visible and fence in taut. Posts should be a maximum of 6' apart. At termination point, fence should be facing uphill. Fence should not exceed 3'and storage should not exceed 1.5'. Check for channel formation parallel to	Silt fence integrity along the east and west beaches appear to be satisfactory.
BMP Type 1 temporary	Tire Wash	1030		Weekly or more frequent during high demand	Dimensions: 40' long x 10' wide X 18" sump with 50' run out. Ensure wash water drainage/collection and treatment system is functioning and/or frequent water replacement.	Remtech pumped out tire wash.
вмР	Mobile Fueling of Vehicles and Heavy Equipment	620		During fueling operations	Ensure compliance with local and state regulations. Request documentation for 49 CFR 178 for DOT 406. Specifics too numerous to summarize, refer to BMP.	E. Murphy supervised mobile fueling activities. No change from previous inspection.

Date: 04-17-03

Name of E & E monitor: Erin Murphy

Current weather conditions: slight winds, sun Last 24 Hr weather conditions: Rain and wind.

DEQ BMP Designation	BMP Name	Inspection Time(s)	Date and Time of last Inspection Time(s)	Minimum Inspection Frequency	Description of BMP	Observations (Effectiveness)
BMP #4	Preserve Existing Vegetation	Continual	,	Weekly or after .5 inch or greater rain event.	Preserving natural habitat to the greatest extent possible. Preserve in clumps or as individual trees. Using safety fence or flagging to delineate prior to commencing work. Delineate work extent.	Limited clearing in work areas.
BMP # 8	Plastic Sheeting of stockpiles or temporary protection of disturbed areas	0610, 1030, 1530, 1710		Weekly or after .5 inch or greater rain event.	Ensure plastic sheeting is covering all soil stockpiles. Look for rips tears on the surface and runoff seeps under matting. Plastic should be anchored w/10' grid spacing using sandbags or suitable system. Minimum 12" overlap of all seams required. B	No changes from previous inspection.
BMP # 11	Gravel Construction Entrance	1030		Daily	There should be no sediment, rock or woodchip on paved surfaces.	No changes from previous inspection.
BMP #13	Dust Control	1530	i .	Continual	Apply water or controls as needed. Keep vehicular traffic in current construction areas and established access routes.	Some scattered showers, high winds. No evidence of dust.
BMP # 28	Compost Sock	N/A (not installed)		Weekly or after .5 inch or greater rain event.	May be utilized as a check dam and is not efficient for turbidity or suspended solids. When utilized as check dam, they must be staked. May have down stream skirt for undercut protection.	Not installed.
вмР	Bio-filter	800, 1030		Weekly or after .5 inch or greater rain event.	Bags should be overlapped by 6". 2 stakes should support each bag. Check for undercutting or end-flow. Inspect for tears and damage. Sediment should not be greater then 1/3 the height of bag.	Spoke with Troy Feathers (Remtech), he assured me the bags would be in soon.
BMP #29	Sediment Fence	0800, 1030		Weekly or after .5 inch or greater rain event.	Ensure bottom of fence is not visible and fence in taut. Posts should be a maximum of 6' apart. At termination point, fence should be facing uphill. Fence should not exceed 3'and storage should not exceed 1.5'. Check for channel formation parallel to	Silt fence integrity along the east and west beaches appear to be satisfactory. Additional fence was added along the west from STA 11+50 - 15+00.
BMP Type 1 temporary	Tire Wash	1030		Weekly or more frequent during high demand	Dimensions: 40' long x 10' wide X 18" sump with 50' run out. Ensure wash water drainage/collection and treatment system is functioning and/or frequent water replacement.	No change from precious inspection.
ВМР	Mobile Fueling of Vehicles and Heavy Equipment	620		During fueling operations	Ensure compliance with local and state regulations. Request documentation for 49 CFR 178 for DOT 406. Specifics too numerous to summarize, refer to BMP.	M. Coenen supervised mobile fueling activities. No change from previous inspection.

Date: 04-21-03

Name of E & E monitor: Erin Murphy

Current weather conditions: slight winds, rain Last 24 Hr weather conditions: Rain and wind.

DEQ BMP Designation	BMP Name	Inspection Time(s)	Date and Time of last Inspection Time(s)	Minimum Inspection Frequency	Description of BMP	Observations (Effectiveness)
BMP #4	Preserve Existing Vegetation	Continual		Weekly or after .5 inch or greater rain event.	Preserving natural habitat to the greatest extent possible. Preserve in clumps or as individual trees. Using safety fence or flagging to delineate prior to commencing work. Delineate work extent.	Limited clearing in work areas.
BMP # 8	Plastic Sheeting of stockpiles or temporary protection of disturbed areas	0610, 1030, 1530, 1710		Weekly or after .5 inch or greater rain event.	Ensure plastic sheeting is covering all soil stockpiles. Look for rips tears on the surface and runoff seeps under matting. Plastic should be anchored w/10' grid spacing using sandbags or suitable system. Minimum 12" overlap of all seams required. B	No changes from previous inspection.
BMP # 11	Gravel Construction Entrance	1030		Daily	There should be no sediment, rock or woodchip on paved surfaces.	No changes from previous inspection.
BMP #13	Dust Control	1530		Continual	Apply water or controls as needed. Keep vehicular traffic in current construction areas and established access routes.	Some scattered showers, high winds. No evidence of dust.
BMP # 28	Compost Sock	N/A (not installed)		Weekly or after .5 inch or greater rain event.	May be utilized as a check dam and is not efficient for turbidity or suspended solids. When utilized as check dam, they must be staked. May have down stream skirt for undercut protection.	Not installed.
ВМР	Bio-filter	735		Weekly or after .5 inch or greater rain event.	Bags should be overlapped by 6". 2 stakes should support each bag. Check for undercutting or end-flow. Inspect for tears and damage. Sediment should not be greater then 1/3 the height of bag.	Bio bags were installed along the west beach.
BMP #29	Sediment Fence	735		Weekly or after .5 inch or greater rain event.	Ensure bottom of fence is not visible and fence in taut. Posts should be a maximum of 6' apart. At termination point, fence should be facing uphill. Fence should not exceed 3'and storage should not exceed 1.5'. Check for channel formation parallel to	Silt fence integrity along the east beach appear to be satisfactory. Silt fence along the west beach will need to be repaired.
BMP Type 1 temporary	Tire Wash			Weekly or more frequent during high demand	Dimensions: 40' long x 10' wide X 18" sump with 50' run out. Ensure wash water drainage/collection and treatment system is functioning and/or frequent water replacement.	No change from precious inspection.
ВМР	Mobile Fueling of Vehicles and Heavy Equipment	620		During fueling operations	Ensure compliance with local and state regulations. Request documentation for 49 CFR 178 for DOT 406. Specifics too numerous to summarize, refer to BMP.	A. Murphy supervised mobile fueling activities. No change from previous inspection.

Date: 04-22-03

Name of E & E monitor: Erin Murphy
Current weather conditions: slight winds, rain
Last 24 Hr weather conditions: Rain and wind.

DEQ BMP Designation	BMP Name	Inspection Time(s)	Date and Time of last Inspection Time(s)	Minimum Inspection Frequency	Description of BMP	Observations (Effectiveness)
BMP #4	Preserve Existing Vegetation	Continual		Weekly or after .5 inch or greater rain event.	Preserving natural habitat to the greatest extent possible. Preserve in clumps or as individual trees. Using safety fence or flagging to delineate prior to commencing work. Delineate work extent.	Limited clearing in work areas.
BMP # 8	Plastic Sheeting of stockpiles or temporary protection of disturbed areas	0610, 1000, 1530, 1710		Weekly or after .5 inch or greater rain event.	Ensure plastic sheeting is covering all soil stockpiles. Look for rips lears on the surface and runoff seeps under matting. Plastic should be anchored w/10' grid spacing using sandbags or suitable system. Minimum 12" overlap of all seams required. B	No changes from previous inspection.
BMP # 11	Gravel Construction Entrance	1000		Daily	There should be no sediment, rock or woodchip on paved surfaces.	Area recently swept and cleaned.
BMP #13	Dust Control	1530		Continual	Apply water or controls as needed. Keep vehicular traffic in current construction areas and established access routes.	Partly cloudy, moderate winds. No evidence of dust.
BMP # 28	Compost Sock	N/A (not installed)		Weekly or after .5 inch or greater rain event.	May be utilized as a check dam and is not efficient for turbidity or suspended solids. When utilized as check dam, they must be staked. May have down stream skirt for undercut protection.	Not installed.
вмР	Bio-filter	735		Weekly or after .5 inch or greater rain event.	Bags should be overlapped by 6". 2 stakes should support each bag. Check for undercutting or end-flow. Inspect for tears and damage. Sediment should not be greater then 1/3 the height of bag.	No changes from previous inspection.
BMP #29	Sediment Fence	735		Weekly or after .5 inch or greater rain event.	Ensure bottom of fence is not visible and fence in taut. Posts should be a maximum of 6' apart. At termination point, fence should be facing uphill. Fence should not exceed 3'and storage should not exceed 1.5'. Check for channel formation parallel to	Silt fence integrity along the east beach appears to be satisfactory. Silt fence along the west beach was repaired at 0735.
BMP Type 1 temporary	Tire Wash	1000		Weekly or more frequent during high demand	Dimensions: 40' long x 10' wide X 18" sump with 50' run out. Ensure wash water drainage/collection and treatment system is functioning and/or frequent water replacement.	Recently pumped.
ВМР	Mobile Fueling of Vehicles and Heavy Equipment	620		During fueling operations	Ensure compliance with local and state regulations. Request documentation for 49 CFR 178 for DOT 406. Specifics too numerous to summarize, refer to BMP.	E. Murphy supervised mobile fueling activities. No change from previous inspection.

Date: 04-23-03

Name of E & E monitor: Erin Murphy
Current weather conditions: moderate winds, rain Last 24 Hr weather conditions: Rain and wind.

DEQ BMP Designation		Inspection Time(s)	Date and Time of last Inspection Time(s)	Minimum Inspection Frequency	Description of BMP	Observations (Effectiveness)
BMP #4	Preserve Existing Vegetation	Continual		Weekly or after .5 inch or greater rain event.	Preserving natural habitat to the greatest extent possible. Preserve in clumps or as individual trees. Using safety fence or flagging to delineate prior to commencing work. Delineate work extent.	Limited clearing in work areas.
BMP # 8	Plastic Sheeting of stockpiles or temporary protection of disturbed areas	0610, 1000, 1530, 1710	-	Weekly or after .5 inch or greater rain event.	Ensure plastic sheeting is covering all soil stockpiles. Look for rips tears on the surface and runoff seeps under matting. Plastic should be anchored w/10' grid spacing using sandbags or suitable system. Minimum 12" overlap of all seams required. B	No changes from previous inspection.
BMP#11	Gravel Construction Entrance	1000		Daily	There should be no sediment, rock or woodchip on paved surfaces.	No change from previous inspection.
BMP #13	Dust Control	1530		Continual	Apply water or controls as needed. Keep vehicular traffic in current construction areas and established access routes.	High volume of rain. No evidence of dust.
BMP # 28		N/A (not installed)		Weekly or after .5 inch or greater rain event.	May be utilized as a check dam and is not efficient for turbidity or suspended solids. When utilized as check dam, they must be staked. May have down stream skirt for undercut protection.	Not installed.
ВМР	Bio-filter	735		Weekly or after .5 inch or greater rain event.	Bags should be overlapped by 6". 2 stakes should support each bag. Check for undercutting or end-flow. Inspect for tears and damage. Sediment should not be greater then 1/3 the height of bag.	No changes from previous inspection.
BMP #29	Sediment Fence	735		Weekly or after .5 inch or greater rain event.	Ensure bottom of fence is not visible and fence in taut. Posts should be a maximum of 6' apart. At termination point, fence should be facing uphill. Fence should not exceed 3'and storage should not exceed 1.5'. Check for channel formation parallel to	Silt fence integrity along the east beach appears to be satisfactory. Silt fence along the west beach is ripped in the same place (STA 12+50). E & E informed Troy Feathers (Remtech).
BMP Type 1 temporary	Tire Wash	1720		Weekly or more frequent during high demand	Dimensions: 40' long x 10' wide X 18" sump with 50' run out. Ensure wash water drainage/collection and treatment system is functioning and/or frequent water replacement.	No change from previous inspection.
вмР	Mobile Fueling of Vehicles and Heavy Equipment	620		During fueling operations	Ensure compliance with local and state regulations. Request documentation for 49 CFR 178 for DOT 406. Specifics too numerous to summarize, refer to BMP.	M. Coenen supervised mobile fueling activities. No change from previous inspection.

Date: 04-24-03

Name of E & E monitor: Erin Murphy

Current weather conditions: moderate winds, rain Last 24 Hr weather conditions: Rain and wind.

DEQ BMP Designation	BMP Name	Inspection Time(s)	Date and Time of last Inspection Time(s)	Minimum Inspection Frequency	Description of BMP	Observations (Effectiveness)
BMP #4	Preserve Existing Vegetation	Continual		Weekly or after .5 inch or greater rain event.	Preserving natural habitat to the greatest extent possible. Preserve in clumps or as individual trees. Using safety fence or flagging to delineate prior to commencing work. Delineate work extent.	Limited clearing in work areas.
BMP # 8	Plastic Sheeting of stockpiles or temporary protection of disturbed areas	0610, 1000, 1530, 1710		Weekly or after .5 inch or greater rain event.	Ensure plastic sheeting is covering all soil stockpiles. Look for rips tears on the surface and runoff seeps under matting. Plastic should be anchored w/10' grid spacing using sandbags or suitable system. Minimum 12" overlap of all seams required. B	No changes from previous inspection.
BMP#11	Gravel Construction Entrance	1000		Daily	There should be no sediment, rock or woodchip on paved surfaces.	Area looks good. No change from previous inspection.
BMP #13	Dust Control	1530		Continual	Apply water or controls as needed. Keep vehicular traffic in current construction areas and established access routes.	No evidence of dust.
BMP # 28	Compost Sock	N/A (not installed)		Weekly or after .5 inch or greater rain event.	May be utilized as a check dam and is not efficient for turbidity or suspended solids. When utilized as check dam, they must be staked. May have down stream skirt for undercut protection.	Not installed.
вмР	Bio-filter	735		Weekly or after .5 inch or greater rain event.	Bags should be overlapped by 6". 2 stakes should support each bag. Check for undercutting or end-flow. Inspect for tears and damage. Sediment should not be greater then 1/3 the height of bag.	No changes from previous inspection.
BMP #29	Sediment Fence	735			fence should be facing uphill. Fence should not exceed 3'and storage should not exceed 1.5'. Check for channel	Silt fence integrity along the east beach appears to be satisfactory. Silt fence along the west beach is ripped in the same place (STA 12+50). E & E informed Troy Feathers (Remtech).
BMP Type 1 temporary	Tire Wash	1720		frequent during	Dimensions: 40' long x 10' wide X 18" sump with 50' run out. Ensure wash water drainage/collection and treatment system is functioning and/or frequent water replacement.	No change from previous inspection.
ВМР	Mobile Fueling of Vehicles and Heavy Equipment	620		During fueling operations	documentation for 49 CFR 178 for DOT 406. Specifics too	A. Murphy supervised mobile fueling activities. No change from previous inspection.

C:	
Signature of monitor:	

Date: 04-28-03

Name of E & E monitor: Erin Murphy
Current weather conditions: High winds.
Last 24 Hr weather conditions: Rain and wind.

DEQ BMP Designation	BMP Name	Inspection Time(s)	Date and Time of last Inspection Time(s)	Minimum Inspection Frequency	Description of BMP	Observations (Effectiveness)
BMP #4	Preserve Existing Vegetation	Continual		Weekly or after .5 inch or greater rain event.	Preserving natural habitat to the greatest extent possible. Preserve in clumps or as individual trees. Using safety fence or flagging to delineate prior to commencing work. Delineate work extent.	Limited clearing in work areas.
BMP # 8	Plastic Sheeting of stockpiles or temporary protection of disturbed areas	0610, 1000, 1530, 1710		Weekly or after .5 inch or greater rain event.	Ensure plastic sheeting is covering all soil stockpiles. Look for rips tears on the surface and runoff seeps under matting. Plastic should be anchored w/10' grid spacing using sandbags or suitable system. Minimum 12" overlap of all seams required. B	No changes from previous inspection.
BMP # 11	Gravel Construction Entrance	1000		Daily	There should be no sediment, rock or woodchip on paved surfaces.	Area looks good. No change from previous inspection.
BMP #13	Dust Control	1530		Continual	Apply water or controls as needed. Keep vehicular traffic in current construction areas and established access routes.	Water trucks sprayed roads at 1700. Winds @ 20 MPH. No notable dust.
BMP # 28	Compost Sock	N/A (not installed)		Weekly or after .5 inch or greater rain event.	May be utilized as a check dam and is not efficient for turbidity or suspended solids. When utilized as check dam, they must be staked. May have down stream skirt for undercut protection.	Not installed.
ВМР	Bio-filter	735		Weekly or after .5 inch or greater rain event.	Bags should be overlapped by 6". 2 stakes should support each bag. Check for underculting or end-flow. Inspect for tears and damage. Sediment should not be greater then 1/3 the height of bag.	No changes from previous inspection.
BMP #29	Sediment Fence	735		Weekly or after .5 inch or greater rain event.	Ensure bottom of fence is not visible and fence in taut. Posts should be a maximum of 6' apart. At termination point, fence should be facing uphill. Fence should not exceed 3'and storage should not exceed 1.5'. Check for channel formation parallel to	Silt fence integrity along the east and west beaches appear to be satisfactory.
BMP Type 1 temporary	Tire Wash	1720		Weekly or more frequent during high demand	Dimensions: 40' long x 10' wide X 18' sump with 50' run out. Ensure wash water drainage/collection and treatment system is functioning and/or frequent water replacement.	No change from previous inspection.
вмР	Mobile Fueling of Vehicles and Heavy Equipment	620		During fueling operations	Ensure compliance with local and state regulations. Request documentation for 49 CFR 178 for DOT 406. Specifics too numerous to summarize, refer to BMP.	E. Murphy supervised mobile fueling activities. No change from previous inspection.

Date: 04-29-03

Name of E & E monitor: Erin Murphy

Current weather conditions: moderate winds. Last 24 Hr weather conditions: Rain and wind.

DEQ BMP Designation	BMP Name	Inspection Time(s)	Date and Time of last Inspection Time(s)	Minimum Inspection Frequency	Description of BMP	Observations (Effectiveness)
LIV	Preserve Existing Vegetation	Continual		Weekly or after .5 inch or greater rain event.	Preserving natural habitat to the greatest extent possible. Preserve in clumps or as individual trees. Using safety fence or flagging to delineate prior to commencing work. Delineate work extent.	Limited clearing in work areas.
BMP#8	Plastic Sheeting of stockpiles or temporary protection of disturbed areas	0610, 1000, 1530, 1710		Weekly or after .5 inch or greater rain event.	Ensure plastic sheeting is covering all soil stockpiles. Look for rips tears on the surface and runoff seeps under matting. Plastic should be anchored w/10' grid spacing using sandbags or suitable system. Minimum 12" overlap of all seams required. B	No changes from previous inspection.
BMP#11	Gravel Construction Entrance	1000		Daily	There should be no sediment, rock or woodchip on paved surfaces.	Area looks good. No change from previous inspection.
BMP #13	Dust Control	1530		Continual	Apply water or controls as needed. Keep vehicular traffic in current construction areas and established access routes.	Rain in morning, no need for water trucks.
BMP # 28	Compost Sock	N/A (not installed)		Weekly or after .5 inch or greater rain event.	May be utilized as a check dam and is not efficient for turbidity or suspended solids. When utilized as check dam, they must be staked. May have down stream skirt for undercut protection.	Not installed.
вмР	Bio-filter	735			Bags should be overlapped by 6". 2 stakes should support each bag. Check for undercutting or end-flow. Inspect for tears and damage. Sediment should not be greater then 1/3 the height of bag.	No changes from previous inspection.
BMP #29	Sediment Fence	735		Weekly or after .5 inch or greater rain event.	Ensure bottom of fence is not visible and fence in taut. Posts should be a maximum of 6' apart. At termination point, fence should be facing uphill. Fence should not exceed 3'and storage should not exceed 1.5'. Check for channel formation parallel to	Silt fence integrity along the east and west beaches appear to be satisfactory.
BMP Type 1 temporary	Tire Wash	1720	1	Weekly or more frequent during high demand	Dimensions: 40' long x 10' wide X 18" sump with 50' run out. Ensure wash water drainage/collection and treatment system is functioning and/or frequent water replacement.	No change from previous inspection.
ВМР	Mobile Fueling of Vehicles and Heavy Equipment	620		During fueling operations	Ensure compliance with local and state regulations. Request documentation for 49 CFR 178 for DOT 406. Specifics too numerous to summarize, refer to BMP.	M. Coenen supervised mobile fueling activities. No change from previous inspection.

ignature of monitor:	;		

Date: 04-30-03

Name of E & E monitor: Erin Murphy
Current weather conditions: moderate winds.
Last 24 Hr weather conditions: Rain and wind.

DEQ BMP Designation	BMP Name	Inspection Time(s)	Date and Time of last Inspection Time(s)	Minimum Inspection Frequency	Description of BMP	Observations (Effectiveness)
BMP #4	Preserve Existing Vegetation	Continual		Weekly or after .5 inch or greater rain event.	Preserving natural habitat to the greatest extent possible. Preserve in clumps or as individual trees. Using safety fence or flagging to delineate prior to commencing work. Delineate work extent.	Vegetation was cleared from STA 12+50 to 8+82. Additional clearing will be required tomorrow for installation of sheet pile.
BMP # 8	Plastic Sheeting of stockpiles or temporary protection of disturbed areas	0610, 1000, 1530, 1710		Weekly or after .5 inch or greater rain event.	Ensure plastic sheeting is covering all soil stockpiles. Look for rips tears on the surface and runoff seeps under matting. Plastic should be anchored w/10' grid spacing using sandbags or suitable system. Minimum 12" overlap of all seams required. B	No changes from previous inspection.
BMP#11	Gravel Construction Entrance	1000		Daily	There should be no sediment, rock or woodchip on paved surfaces.	Area looks good. No change from previous inspection.
BMP #13	Dust Control	1530		Continual	Apply water or controls as needed. Keep vehicular traffic in current construction areas and established access routes.	Rain in early morning, no need for water trucks.
BMP # 28	Compost Sock	N/A (not installed)		Weekly or after .5 inch or greater rain event.	May be utilized as a check dam and is not efficient for turbidity or suspended solids. When utilized as check dam, they must be staked. May have down stream skirt for undercut protection.	Not installed.
вмР	Bio-filter	735, 1030, 1235, 1500, 1715		Weekly or after .5 inch or greater rain event.	Bags should be overlapped by 6". 2 stakes should support each bag. Check for undercutting or end-flow. Inspect for tears and damage. Sediment should not be greater then 1/3 the height of bag.	Bio-bags will need to be placed along silt fence from STA13+00 to 8+82.
BMP #29	Sediment Fence	735, 1030, 1235, 1500, 1715		Weekly or after .5 inch or greater rain event.	Ensure bottom of fence is not visible and fence in taut. Posts should be a maximum of 6' apart. At termination point, fence should be facing uphill. Fence should not exceed 3'and storage should not exceed 1.5'. Check for channel formation parallel to	Silt fence integrity along the east and west beaches appear to be satisfactory. Additional silt fence installed from 13+00 to 8.82.
BMP Type 1 temporary	Tire Wash	1520		Weekly or more frequent during high demand	Dimensions: 40' long x 10' wide X 18" sump with 50' run out. Ensure wash water drainage/collection and treatment system is functioning and/or frequent water replacement.	No change from previous inspection.
вмР	Mobile Fueling of Vehicles and Heavy Equipment	620		During fueling operations	Ensure compliance with local and state regulations. Request documentation for 49 CFR 178 for DOT 406. Specifics too numerous to summarize, refer to BMP.	A. Murphy supervised mobile fueling activities. No change from previous inspection.

Signature of monitor:	

Date: 05-01-03

Name of E & E monitor: Erin Murphy
Current weather conditions: sunny and warm
Last 24 Hr weather conditions: Overcast.

DEQ BMP Designation	BMP Name	Inspection Time(s)	Date and Time of last Inspection Time(s)	Minimum Inspection Frequency	Description of BMP	Observations (Effectiveness)
BMP #4	Preserve Existing Vegetation	Continual		Weekly or after .5 inch or greater rain event.	Preserving natural habitat to the greatest extent possible. Preserve in clumps or as individual trees. Using safety fence or flagging to delineate prior to commencing work. Delineate work extent.	Remaining vegetation was cleared from STA 12+50 to 8+82. A few tree's still remain between 12+00 and 12+50. These trees are scheduled to be removed sometime late next week.
BMP#8	Plastic Sheeting of stockpiles or temporary protection of disturbed areas	0610, 1000, 1530, 1710		Weekly or after .5 inch or greater rain event.	Ensure plastic sheeting is covering all soil stockpiles. Look for rips tears on the surface and runoff seeps under matting. Plastic should be anchored w/10' grid spacing using sandbags or suitable system. Minimum 12" overlap of all seams required. B	No changes from previous inspection.
BMP # 11	Gravel Construction Entrance	1000		Daily	There should be no sediment, rock or woodchip on paved surfaces.	No change from previous inspection.
BMP #13	Dust Control	1530		Continual	Apply water or controls as needed. Keep vehicular traffic in current construction areas and established access routes.	No changes from previous inspection.
BMP # 28	Compost Sock	N/A (not installed)		Weekly or after .5 inch or greater rain event.	May be utilized as a check dam and is not efficient for turbidity or suspended solids. When utilized as check dam, they must be staked. May have down stream skirt for undercut protection.	Not installed.
вмР	Bio-filter	735, 1030, 1235, 1500, 1715		Weekly or after .5 inch or greater rain event.	Bags should be overlapped by 6". 2 stakes should support each bag. Check for undercutting or end-flow. Inspect for tears and damage. Sediment should not be greater then 1/3 the height of bag.	Bio-bags were installed along silt fence from STA13+00 to 8+82.
BMP #29	Sediment Fence	735, 1030, 1235, 1500, 1715		Weekly or after .5 inch or greater rain event.		Silt fence integrity along the east and west beaches appear to be satisfactory. Areas ripped/torn by wildlife have been restapled.
BMP Type 1 temporary	Tire Wash	1520		Weekly or more frequent during high demand	Dimensions: 40' long x 10' wide X 18" sump with 50' run out. Ensure wash water drainage/collection and treatment system is functioning and/or frequent water replacement.	No change from previous inspection.
вмР	Mobile Fueling of Vehicles and Heavy Equipment	620	l	During fueling operations	documentation for 49 CFR 178 for DOT 406. Specifics too	E. Murphy supervised mobile fueling activities. No change from previous inspection.

Signature of monitor:		

Date: 05-05-03

Name of E & E monitor: Erin Murphy
Current weather conditions: sunny and warm
Last 24 Hr weather conditions: Overcast.

DEQ BMP Designation	BMP Name	Inspection Time(s)	Date and Time of last Inspection Time(s)	Minimum Inspection Frequency	Description of BMP	Observations (Effectiveness)
BMP #4	Preserve Existing Vegetation	Continual		Weekly or after .5 inch or greater rain event.	Preserving natural habitat to the greatest extent possible. Preserve in clumps or as individual trees. Using safety fence or flagging to delineate prior to commencing work. Delineate work extent.	Remaining vegetation and large boulders were removed from STA 9+50 to 8+82. A few tree's still remain between 12+00 and 12+50. These trees are scheduled to be removed sometime late this week.
BMP # 8	Plastic Sheeting of stockpiles or temporary protection of disturbed areas	0610, 1000, 1530, 1710		Weekly or after .5 inch or greater rain event.	Ensure plastic sheeting is covering all soil stockpiles. Look for rips tears on the surface and runoff seeps under matting. Plastic should be anchored w/10' grid spacing using sandbags or suitable system. Minimum 12" overlap of all seams required. B	No changes from previous inspection.
BMP # 11	Gravel Construction Entrance	1000		Daily	There should be no sediment, rock or woodchip on paved surfaces.	Area clean.
BMP #13	Dust Control	1530		Continual	Apply water or controls as needed. Keep vehicular traffic in current construction areas and established access routes.	No changes from previous inspection.
BMP # 28	Compost Sock	N/A (not installed)		Weekly or after .5 inch or greater rain event.	May be utilized as a check dam and is not efficient for turbidity or suspended solids. When utilized as check dam, they must be staked. May have down stream skirt for undercut protection.	Not installed.
ВМР	Bio-filter	735, 1030, 1235, 1500, 1715		Weekly or after .5 inch or greater rain event.	Bags should be overlapped by 6". 2 stakes should support each bag. Check for undercutting or end-flow. Inspect for tears and damage. Sediment should not be greater then 1/3 the height of bag.	No change from previous inspection.
BMP #29	Sediment Fence	735, 1030, 1235, 1500, 1715		Weekly or after .5 inch or greater rain event.	Ensure bottom of fence is not visible and fence in taut. Posts should be a maximum of 6' apart. At termination point, fence should be facing uphill. Fence should not exceed 3'and storage should not exceed 1.5'. Check for channel formation parallel to	Silt fence integrity along the east and west beaches appear to be satisfactory. Areas along the west fence have been ripped/torn by wildlife in same locations. E & E will restaple before tomorrow at 10:00.
BMP Type 1 temporary	Tire Wash	1520		Weekly or more frequent during high demand	Dimensions: 40' long x 10' wide X 18" sump with 50' run out. Ensure wash water drainage/collection and treatment system is functioning and/or frequent water replacement.	No change from previous inspection.
вмР	Mobile Fueling of Vehicles and Heavy Equipment	620		During fueling operations	Ensure compliance with local and state regulations. Request documentation for 49 CFR 178 for DOT 406. Specifics too numerous to summarize, refer to BMP.	M. Coenen supervised mobile fueling activities. No change from previous inspection.

Signature of monitor:	

Date: 05-06-03

Name of E & E monitor: Erin Murphy
Current weather conditions: Partly cloudy and cool.
Last 24 Hr weather conditions: Overcast.

DEQ BMP Designation	BMP Name	Inspection Time(s)	Date and Time of last Inspection Time(s)	Minimum Inspection Frequency	Description of BMP	Observations (Effectiveness)
BMP #4	Preserve Existing Vegetation	Continual		Weekly or after .5 inch or greater rain event.	Preserving natural habitat to the greatest extent possible. Preserve in clumps or as individual trees. Using safety fence or flagging to delineate prior to commencing work. Delineate work extent.	No change from previous inspection.
BMP # 8	Plastic Sheeting of stockpiles or temporary protection of disturbed areas	0610, 1000, 1530, 1710		Weekly or after .5 inch or greater rain event.	Ensure plastic sheeting is covering all soil stockpiles. Look for rips tears on the surface and runoff seeps under matting. Plastic should be anchored w/10' grid spacing using sandbags or suitable system. Minimum 12" overlap of all seams required. B	No changes from previous inspection.
BMP # 11	Gravel Construction Entrance	1000		Daily	There should be no sediment, rock or woodchip on paved surfaces.	Area clean.
BMP #13	Dust Control	1530		Continual	Apply water or controls as needed. Keep vehicular traffic in current construction areas and established access routes.	No changes from previous inspection.
BMP # 28	Compost Sock	N/A (not installed)		Weekly or after .5 inch or greater rain event.	May be utilized as a check dam and is not efficient for turbidity or suspended solids. When utilized as check dam, they must be staked. May have down stream skirt for undercut protection.	Not installed.
вмР	Bio-filter	735, 1030, 1235, 1500, 1715		Weekly or after .5 inch or greater rain event.	Bags should be overlapped by 6". 2 stakes should support each bag. Check for undercutting or end-flow. Inspect for tears and damage. Sediment should not be greater then 1/3 the height of bag.	No change from previous inspection.
BMP #29	Sediment Fence	735, 1030, 1235, 1500, 1715		Weekly or after .5 inch or greater rain event.	Ensure bottom of fence is not visible and fence in taut. Posts should be a maximum of 6' apart. At termination point, fence should be facing uphill. Fence should not exceed 3'and storage should not exceed 1.5'. Check for channel formation parallel to	Silt fence integrity along the east and west beaches appear to be satisfactory. Areas along the west fence have been ripped/torn by wildlife in same locations. Remtech repaired required areas in AM.
BMP Type 1 temporary	Tire Wash	1520		Weekly or more frequent during high demand	Dimensions: 40' long x 10' wide X 18" sump with 50' run out. Ensure wash water drainage/collection and treatment system is functioning and/or frequent water replacement.	No change from previous inspection.
ВМР	Mobile Fueling of Vehicles and Heavy Equipment	620		During fueling operations	Ensure compliance with local and state regulations. Request documentation for 49 CFR 178 for DOT 406. Specifics too numerous to summarize, refer to BMP.	M. Coenen supervised mobile fueling activities. No change from previous inspection.

Signature of monitor:		
Signature of monitor.		

Date: 05-07-03

Name of E & E monitor: Erin Murphy
Current weather conditions: Partly cloudy and cool.
Last 24 Hr weather conditions: Overcast.

DEQ BMP Designation	BMP Name	Inspection Time(s)	Date and Time of last Inspection Time(s)	Minimum Inspection Frequency	Description of BMP	Observations (Effectiveness)
BMP #4	Preserve Existing Vegetation	Continual		Weekly or after .5 inch or greater rain event.	Preserving natural habitat to the greatest extent possible. Preserve in clumps or as individual trees. Using safety fence or flagging to delineate prior to commencing work. Delineate work extent.	No change from previous inspection.
BMP # 8	Plastic Sheeting of stockpiles or temporary protection of disturbed areas	0610, 1000, 1530, 1710		Weekly or after .5 inch or greater rain event.	Ensure plastic sheeting is covering all soil stockpiles. Look for rips tears on the surface and runoff seeps under matting. Plastic should be anchored w/10' grid spacing using sandbags or suitable system. Minimum 12" overlap of all seams required. B	No changes from previous inspection.
BMP # 11	Gravel Construction Entrance	1200		Daily	There should be no sediment, rock or woodchip on paved surfaces.	Area recently swept and cleaned.
BMP #13	Dust Control	1200		Continual	Apply water or controls as needed. Keep vehicular traffic in current construction areas and established access routes.	No changes from previous inspection.
BMP # 28	Compost Sock	N/A (not installed)		Weekly or after .5 inch or greater rain event.	May be utilized as a check dam and is not efficient for turbidity or suspended solids. When utilized as check dam, they must be staked. May have down stream skirt for undercut protection.	Not installed.
вмР	Bio-filter	640, 1000, 1200, 1400, 1700		Weekly or after .5 inch or greater rain event.	Bags should be overlapped by 6". 2 stakes should support each bag. Check for undercutting or end-flow. Inspect for tears and damage. Sediment should not be greater then 1/3 the height of bag.	Bio-filter bags are in good condition.
BMP #29	Sediment Fence	640, 1000, 1200, 1400, 1700		Weekly or after .5 inch or greater rain event.	Ensure bottom of fence is not visible and fence in taut. Posts should be a maximum of 6' apart. At termination point, fence should be facing uphill. Fence should not exceed 3'and storage should not exceed 1.5'. Check for channel formation parallel to	Silt fence integrity along the east and west beaches appear to be satisfactory. Areas along the west fence continue to be ripped/torn by wildlife in same locations nightly.
BMP Type 1 temporary	Tire Wash	1520		Weekly or more frequent during high demand	Dimensions: 40' long x 10' wide X 18" sump with 50' run out. Ensure wash water drainage/collection and treatment system is functioning and/or frequent water replacement.	Sediment removed and water pumped out at 0830.
ВМР	Mobile Fueling of Vehicles and Heavy Equipment	615		During fueling operations	Ensure compliance with local and state regulations. Request documentation for 49 CFR 178 for DOT 406. Specifics too numerous to summarize, refer to BMP.	E. Murphy supervised mobile fueling activities. No change from previous inspection.

Signature of monitor:	

Date: 05-08-03

Name of E & E monitor: Andrew Murphy & Mike Coenen Current weather conditions: Partly cloudy and cool.

Last 24 Hr weather conditions: Overcast.

DEQ BMP Designation	BMP Name	Inspection Time(s)	Date and Time of last Inspection Time(s)	Minimum Inspection Frequency	Description of BMP	Observations (Effectiveness)
BMP #4	Preserve Existing Vegetation	Continual		Weekly or after .5 inch or greater rain event.	Preserving natural habitat to the greatest extent possible. Preserve in clumps or as individual trees. Using safety fence or flagging to delineate prior to commencing work. Delineate work extent.	No change from previous inspection.
BMP#8	Plastic Sheeting of stockpiles or temporary protection of disturbed areas	0610, 1000, 1530, 1710		Weekly or after .5 inch or greater rain event.	Ensure plastic sheeting is covering all soil stockpiles. Look for rips tears on the surface and runoff seeps under matting. Plastic should be anchored w/10' grid spacing using sandbags or suitable system. Minimum 12" overlap of all seams required. B	No changes from previous inspection.
BMP # 11	Gravel Construction Entrance	1200		Daily	There should be no sediment, rock or woodchip on paved surfaces.	Area recently swept and cleaned.
BMP #13	Dust Control	1200		Continual	Apply water or controls as needed. Keep vehicular traffic in current construction areas and established access routes.	No changes from previous inspection.
BMP # 28	Compost Sock	N/A (not installed)		Weekly or after .5 inch or greater rain event.	May be utilized as a check dam and is not efficient for turbidity or suspended solids. When utilized as check dam, they must be staked. May have down stream skirt for undercut protection.	Not Applicable/Not installed.
ВМР	Bio-filter	640, 1000, 1200, 1400, 1700		Weekly or after .5 inch or greater rain event.	Bags should be overlapped by 6". 2 stakes should support each bag. Check for undercutting or end-flow. Inspect for tears and damage. Sediment should not be greater then 1/3 the height of bag.	Bio-filter bags are in good condition.
BMP #29	Sediment Fence	640, 1000, 1200, 1400, 1700		Weekly or after .5 inch or greater rain event.	Ensure bottom of fence is not visible and fence in taut. Posts should be a maximum of 6' apart. At termination point, fence should be facing uphill. Fence should not exceed 3'and storage should not exceed 1.5'. Check for channel formation parallel to	Silt fence integrity along the east and west beaches appear to be satisfactory. Areas along the west fence continue to be ripped/torn by wildlife in same locations nightly.
BMP Type 1 temporary	Tire Wash	1520		Weekly or more frequent during high demand	Dimensions: 40' long x 10' wide X 18" sump with 50' run out. Ensure wash water drainage/collection and treatment system is functioning and/or frequent water replacement.	No changes from previous inspection.
вмР	Mobile Fueling of Vehicles and Heavy Equipment	615		During fueling operations		A. Murphy supervised mobile fueling activities. No change from previous inspection.

N		
Signature of monitor:		

Date: 05-12-03

Name of E & E monitor: Erin Murphy
Current weather conditions: Partly cloudy and cool (PM); Sunny (AM).

Last 24 Hr weather conditions: Same

DEQ BMP Designation	BMP Name	Inspection Time(s)	Date and Time of last Inspection Time(s)	· Minimum Inspection Frequency	Description of BMP	Observations (Effectiveness)
BMP #4	Preserve Existing Vegetation	Continual		Weekly or after .5 inch or greater rain event.	Preserving natural habitat to the greatest extent possible. Preserve in clumps or as individual trees. Using safety fence or flagging to delineate prior to commencing work. Delineate work extent.	Tree's are still standing from 12+00-12+50, but should be removed sometime this week.
BMP # 8	Plastic Sheeting of stockpiles or temporary protection of disturbed areas	0610, 1000, 1530, 1710		Weekly or after .5 inch or greater rain event.	Ensure plastic sheeting is covering all soil stockpiles. Look for rips tears on the surface and runoff seeps under matting. Plastic should be anchored w/10' grid spacing using sandbags or suitable system. Minimum 12" overlap of all seams required. B	No changes from previous inspection.
BMP # 11	Gravel Construction Entrance	1200		Daily	There should be no sediment, rock or woodchip on paved surfaces.	Rock debris and mud have been carried through the reduction zone and the support zone from an unwashed truck. Remtech has been notified.
BMP #13	Dust Control	1200		Continual	Apply water or controls as needed. Keep vehicular traffic in current construction areas and established access routes.	No changes from previous inspection.
BMP # 28	Compost Sock	N/A (not installed)		Weekly or after .5 inch or greater rain event.	May be utilized as a check dam and is not efficient for turbidity or suspended solids. When utilized as check dam, they must be staked. May have down stream skirt for undercut protection.	Not Applicable/Not installed.
вмР	Bio-filter	640, 1000, 1200, 1400, 1700	i e	Weekly or after .5 inch or greater rain event.	Bags should be overlapped by 6". 2 stakes should support each bag. Check for undercutting or end-flow. Inspect for tears and damage. Sediment should not be greater then 1/3 the height of bag.	Bio-filter bags are in good condition.
BMP #29	Sediment Fence	640, 1000, 1200, 1400, 1700		Weekly or after .5 inch or greater rain event.	Ensure bottom of fence is not visible and fence in taut. Posts should be a maximum of 6' apart. At termination point, fence should be facing uphill. Fence should not exceed 3'and storage should not exceed 1.5'. Check for channel formation parallel to	Silt fence integrity along the east and west beaches appear to be satisfactory. Areas along the west fence continue to be ripped/torn by wildlife in same locations nightly.
BMP Type 1 temporary	Tire Wash	1100		Weekly or more frequent during high demand	Dimensions: 40' long x 10' wide X 18" sump with 50' run out. Ensure wash water drainage/collection and treatment system is functioning and/or frequent water replacement.	One truck did not utilize tire wash. Tire wash is full and will need to be pumped again.
вмР	Mobile Fueling of Vehicles and Heavy Equipment	615		During fueling operations	Ensure compliance with local and state regulations. Request documentation for 49 CFR 178 for DOT 406. Specifics too numerous to summarize, refer to BMP.	A. Murphy supervised mobile fueling activities. No change from previous inspection.

Signature of monitor:	

Date: 05-13-03

Name of E & E monitor: Erin Murphy Current weather conditions: Sunny

Last 24 Hr weather conditions: few clouds, no rain.

DEQ BMP Designation	BMP Name	Inspection Time(s)	Date and Time of last Inspection Time(s)	Minimum Inspection Frequency	Description of BMP	Observations (Effectiveness)
BMP #4	Preserve Existing Vegetation	Continual		Weekly or after .5 inch or greater rain event.	Preserving natural habitat to the greatest extent possible. Preserve in clumps or as individual trees. Using safety fence or flagging to delineate prior to commencing work. Delineate work extent.	Tree's are still standing from 12+00-12+50, but should be removed sometime this week.
BMP # 8	Plastic Sheeting of stockpiles or temporary protection of disturbed areas	0610, 1000, 1530, 1710		Weekly or after .5 inch or greater rain event.	Ensure plastic sheeting is covering all soil stockpiles. Look for rips tears on the surface and runoff seeps under matting. Plastic should be anchored w/10' grid spacing using sandbags or suitable system. Minimum 12" overlap of all seams required. B	No changes from previous inspection.
BMP # 11	Gravel Construction Entrance	1200		Daily	There should be no sediment, rock or woodchip on paved surfaces.	Area looks satisfactory.
BMP #13	Dust Control	1200		Continual	Apply water or controls as needed. Keep vehicular traffic in current construction areas and established access routes.	No changes from previous inspection.
BMP # 28	ICOMPOST SOCK	N/A (not installed)		Weekly or after .5 inch or greater rain event.	May be utilized as a check dam and is not efficient for turbidity or suspended solids. When utilized as check dam, they must be staked. May have down stream skirt for undercut protection.	Not Applicable/Not installed.
вмР	Bio-filter	640, 1000, 1200, 1400, 1700		Weekly or after .5 inch or greater rain event.	Bags should be overlapped by 6°. 2 stakes should support each bag. Check for undercutting or end-flow. Inspect for tears and damage. Sediment should not be greater then 1/3 the height of bag.	Bio-filter bags are in good condition.
BMP #29	Sediment Fence	640, 1000, 1200, 1400, 1700			Ensure bottom of fence is not visible and fence in taut. Posts should be a maximum of 6' apart. At termination point, fence should be facing uphill. Fence should not exceed 3'and storage should not exceed 1.5'. Check for channel formation parallel to	Silt fence integrity along the east and west beaches appear to be satisfactory. Areas along the west fence continue to be ripped/torn by wildlife in same locations nightly. E & E repaired fence in areas needed at 0800.
BMP Type 1 temporary	Tire Wash	1100		Weekly or more frequent during high demand	Dimensions: 40' long x 10' wide X 18" sump with 50' run out. Ensure wash water drainage/collection and treatment system is functioning and/or frequent water replacement.	Over-filled.
RMD	Mobile Fueling of Vehicles and Heavy Equipment	615		During fueling operations	Ensure compliance with local and state regulations. Request documentation for 49 CFR 178 for DOT 406. Specifics too numerous to summarize, refer to BMP.	M. Coenen supervised mobile fueling activities. No adverse impacts were observed.

Signature of monitor:	

Date: 05-14-03

Name of E & E monitor: Erin Murphy Current weather conditions: Sunny

Last 24 Hr weather conditions: few clouds, no rain.

DEQ BMP Designation	BMP Name	Inspection Time(s)	Date and Time of last Inspection Time(s)	Minimum Inspection Frequency	Description of BMP	Observations (Effectiveness)
BMP #4	Preserve Existing Vegetation	Continual	·	Weekly or after .5 inch or greater rain event.	Preserving natural habitat to the greatest extent possible. Preserve in clumps or as individual trees. Using safety fence or flagging to delineate prior to commencing work. Delineate work extent.	Tree's are still standing from 12+00-12+50.
BMP # 8	Plastic Sheeting of stockpiles or temporary protection of disturbed areas	0610, 1000, 1530, 1710		Weekly or after .5 inch or greater rain event.	Ensure plastic sheeting is covering all soil stockpiles. Look for rips tears on the surface and runoff seeps under matting. Plastic should be anchored w/10' grid spacing using sandbags or suitable system. Minimum 12" overlap of all seams required. B	No changes from previous inspection.
BMP # 11	Gravel Construction Entrance	1200		Daily	There should be no sediment, rock or woodchip on paved surfaces.	High rain volume kept area clean.
BMP #13	Dust Control	1200		Continual	Apply water or controls as needed. Keep vehicular traffic in current construction areas and established access routes.	Not needed due to high rain volume.
BMP # 28	Compost Sock	N/A (not installed)		Weekly or after .5 inch or greater rain event.	May be utilized as a check dam and is not efficient for turbidity or suspended solids. When utilized as check dam, they must be staked. May have down stream skirt for undercut protection.	Not Applicable/Not installed.
вмР	Bio-filter	640, 1000, 1200, 1400, 1700		Weekly or after .5 inch or greater rain event.	Bags should be overlapped by 6". 2 stakes should support each bag. Check for undercutting or end-flow. Inspect for tears and damage. Sediment should not be greater then 1/3 the height of bag.	Bio-filter bags are in good condition.
BMP #29	Sediment Fence	640, 1000, 1200, 1400, 1700		Weekly or after .5 inch or greater rain event.	Ensure bottom of fence is not visible and fence in taut. Posts should be a maximum of 6' apart. At termination point, fence should be facing uphill. Fence should not exceed 3'and storage should not exceed 1.5'. Check for channel formation parallel to	Silt fence integrity along the east and west beaches appear to be satisfactory. Areas along the west fence continue to be ripped/torn by wildlife in same locations nightly.
BMP Type 1 temporary	Tire Wash	1100		Weekly or more frequent during high demand	Dimensions: 40' long x 10' wide X 18" sump with 50' run out. Ensure wash water drainage/collection and treatment system is functioning and/or frequent water replacement.	Overfilled due to rain.
ВМР	Mobile Fueling of Vehicles and Heavy Equipment	615		During fueling operations	Ensure compliance with local and state regulations. Request documentation for 49 CFR 178 for DOT 406. Specifics too numerous to summarize, refer to BMP.	A. Murphy supervised mobile fueling activities. No adverse impacts were observed.

Signature of monitor:		

Date: 05-15-03

Name of E & E monitor: Erin Murphy

Current weather conditions: Overcast and rain.

Last 24 Hr weather conditions: few clouds, no rain.

DEQ BMP Designation		Inspection Time(s)	Date and Time of last Inspection Time(s)	Minimum Inspection Frequency	Description of BMP	Observations (Effectiveness)
BMP #4	Preserve Existing Vegetation	Continual		Weekly or after .5 inch or greater rain event.	Preserving natural habitat to the greatest extent possible. Preserve in clumps or as individual trees. Using safety fence or flagging to delineate prior to commencing work. Delineate work extent.	Tree's are still standing from 12+00-12+50.
BMP # 8	Plastic Sheeting of stockpiles or temporary protection of disturbed areas	0610, 1000, 1530, 1710		Weekly or after .5 inch or greater rain event.	Ensure plastic sheeting is covering all soil stockpiles. Look for rips tears on the surface and runoff seeps under matting. Plastic should be anchored w/10' grid spacing using sandbags or suitable system. Minimum 12" overlap of all seams required. B	No changes from previous inspection.
BMP # 11	Gravel Construction Entrance	1200		Daily	There should be no sediment, rock or woodchip on paved surfaces.	Area looks satisfactory.
BMP #13	Dust Control	1200		Continual	Apply water or controls as needed. Keep vehicular traffic in current construction areas and established access routes.	Not needed/High rain volume.
BMP # 28	Compost Sock	N/A (not installed)		Weekly or after .5 inch or greater rain event.	May be utilized as a check dam and is not efficient for turbidity or suspended solids. When utilized as check dam, they must be staked. May have down stream skirt for undercut protection.	Not Applicable/Not installed.
вмР	Bio-filter	640, 1000, 1200, 1400, 1700		Weekly or after .5 inch or greater rain event.	Bags should be overlapped by 6". 2 stakes should support each bag. Check for undercutting or end-flow. Inspect for tears and damage. Sediment should not be greater then 1/3 the height of bag.	Bio-filter bags are in good condition.
BMP #29	Sediment Fence	640, 1000, 1200, 1400, 1700		Weekly or after .5 inch or greater rain event.	Ensure bottom of fence is not visible and fence in taut. Posts should be a maximum of 6' apart. At termination point, fence should be facing uphill. Fence should not exceed 3'and storage should not exceed 1.5'. Check for channel formation parallel to	Silt fence integrity along the east and west beaches appear to be satisfactory. Areas along the west fence continue to be ripped/torn by wildlife in same locations nightly.
BMP Type 1 temporary	Tire Wash	1100		Weekly or more frequent during high demand	Dimensions: 40' long x 10' wide X 18" sump with 50' run out. Ensure wash water drainage/collection and treatment system is functioning and/or frequent water replacement.	Overfilled due to rain.
вмР	Mobile Fueling of Vehicles and Heavy Equipment	615		During fueling operations	Ensure compliance with local and state regulations. Request documentation for 49 CFR 178 for DOT 406. Specifics too numerous to summarize, refer to BMP.	A. Murphy supervised mobile fueling activities. No adverse impacts were observed.

Signature of monitor:		

Date: 05-19-03

Name of E & E monitor: Erin Murphy

Current weather conditions: Sunny Last 24 Hr weather conditions: few clouds, no rain.

DEQ BMP Designation	BMP Name	Inspection Time(s)	Date and Time of last Inspection Time(s)	Minimum Inspection Frequency	Description of BMP	Observations (Effectiveness)
BMP #4	Preserve Existing Vegetation	Continual		Weekly or after .5 inch or greater rain event.	Preserving natural habitat to the greatest extent possible. Preserve in clumps or as individual trees. Using safety fence or flagging to delineate prior to commencing work. Delineate work extent.	Tree removal between 12+00-12+50 began and will continue tomorrow.
BMP # 8	Plastic Sheeting of stockpiles or temporary protection of disturbed areas	0610, 1000, 1530, 1710		Weekly or after .5 inch or greater rain event.	Ensure plastic sheeting is covering all soil stockpiles. Look for rips tears on the surface and runoff seeps under matting. Plastic should be anchored w/10' grid spacing using sandbags or suitable system. Minimum 12" overlap of all seams required. B	No changes from previous inspection.
BMP # 11	Gravel Construction Entrance	1200		Daily	There should be no sediment, rock or woodchip on paved surfaces.	Area looks satisfactory.
BMP #13	Dust Control	1200		Continual	Apply water or controls as needed. Keep vehicular traffic in current construction areas and established access routes.	No dust observed. Water trucks were utilized.
BMP # 28	Compost Sock	N/A (not installed)		Weekly or after .5 inch or greater rain event.	May be utilized as a check dam and is not efficient for turbidity or suspended solids. When utilized as check dam, they must be staked. May have down stream skirt for undercut protection.	Not Applicable/Not installed.
ВМР	Bio-filter	640, 1000, 1200, 1400, 1700		Weekly or after .5 inch or greater rain event.	Bags should be overlapped by 6". 2 stakes should support each bag. Check for undercutting or end-flow. Inspect for tears and damage. Sediment should not be greater then 1/3 the height of bag.	Bio-filter bags are in good condition.
BMP #29	Sediment Fence	640, 1000, 1200, 1400, 1700		Weekly or after .5 inch or greater rain event.	Ensure bottom of fence is not visible and fence in taut. Posts should be a maximum of 6' apart. At termination point, fence should be facing uphill. Fence should not exceed 3'and storage should not exceed 1.5'. Check for channel formation parallel to	Silt fence integrity along the east and west beaches appear to be satisfactory. Areas along the west fence continue to be ripped/torn by wildlife in same locations nightly.
BMP Type 1 temporary	Tire Wash	1100		Weekly or more frequent during high demand	Dimensions: 40' long x 10' wide X 18" sump with 50' run out. Ensure wash water drainage/collection and treatment system is functioning and/or frequent water replacement.	Recently pumped.
вмР	Mobile Fueling of Vehicles and Heavy Equipment	615		During fueling operations	Ensure compliance with local and state regulations. Request documentation for 49 CFR 178 for DOT 406. Specifics too numerous to summarize, refer to BMP.	E. Murphy supervised mobile fueling activities. No adverse impacts were observed.

Signature of monitor:	

Date: 05-20-03

Name of E & E monitor: Erin Murphy
Current weather conditions: Partly cloudy, scattered showers
Last 24 Hr weather conditions: few clouds, no rain.

DEQ BMP Designation	BMP Name	Inspection Time(s)	Date and Time of last Inspection Time(s)	Minimum Inspection Frequency	Description of BMP	Observations (Effectiveness)
BMP #4	Preserve Existing Vegetation	Continual		Weekly or after .5 inch or greater rain event.	Preserving natural habitat to the greatest extent possible. Preserve in clumps or as individual trees. Using safety fence or flagging to delineate prior to commencing work. Delineate work extent.	Vegetation removal is complete between 12+00-12+50.
BMP # 8	Plastic Sheeting of stockpiles or temporary protection of disturbed areas	0610, 1000, 1530, 1710		Weekly or after .5 inch or greater rain event.	Ensure plastic sheeting is covering all soil stockpiles. Look for rips tears on the surface and runoff seeps under matting. Plastic should be anchored w/10' grid spacing using sandbags or suitable system. Minimum 12" overlap of all seams required. B	No changes from previous inspection.
BMP # 11	Gravel Construction Entrance	1200		Daily	There should be no sediment, rock or woodchip on paved surfaces.	Area needs to be swept.
BMP #13	Dust Control	1200		Continual	Apply water or controls as needed. Keep vehicular traffic in current construction areas and established access routes.	No dust observed. Water trucks were utilized.
BMP # 28	Compost Sock	N/A (not installed)		Weekly or after .5 inch or greater rain event.	May be utilized as a check dam and is not efficient for turbidity or suspended solids. When utilized as check dam, they must be staked. May have down stream skirt for undercut protection.	Not Applicable/Not installed.
ВМР	Bio-filter	640, 1000, 1200, 1400, 1700		Weekly or after .5 inch or greater rain event.	Bags should be overlapped by 6". 2 stakes should support each bag. Check for undercutting or end-flow. Inspect for tears and damage. Sediment should not be greater then 1/3 the height of bag.	Bio-filter bags are in good condition.
BMP #29	Sediment Fence	640, 1000, 1200, 1400, 1700		Weekly or after .5 inch or greater rain event.	channel formation parallel to	Silt fence integrity along the east and west beaches appear to be satisfactory. Areas along the west fence continue to be ripped/torn by wildlife in same locations nightly. E & E and Remtech repaired silt fence along west beach.
BMP Type 1 temporary	Tire Wash	1100		Weekly or more frequent during high demand	Dimensions: 40' long x 10' wide X 18" sump with 50' run out. Ensure wash water drainage/collection and treatment system is functioning and/or frequent water replacement.	Sediment was removed at 1435.
вмР	Mobile Fueling of Vehicles and Heavy Equipment	615		During fueling operations	Ensure compliance with local and state regulations. Request documentation for 49 CFR 178 for DOT 406. Specifics too numerous to summarize, refer to BMP.	M. Coenen supervised mobile fueling activities. No adverse impacts were observed.

Signature of monitor:	

Date: 05-21-03

Name of E & E monitor: Erin Murphy
Current weather conditions: Partly cloudy
Last 24 Hr weather conditions: Same

Last 24 III We	ather conditions	s. Same				
DEQ BMP Designation	BMP Name	Inspection Time(s)	Date and Time of last Inspection Time(s)	Minimum Inspection Frequency	Description of BMP	Observations (Effectiveness)
BMP #4	Preserve Existing Vegetation	Continual		Weekly or after .5 , inch or greater rain event.	Preserving natural habitat to the greatest extent possible. Preserve in clumps or as individual trees. Using safety fence or flagging to delineate prior to commencing work. Delineate work extent.	Vegetation removal is complete, no additional removal of existing vegetation is anticipated.
BMP # 8	Plastic Sheeting of stockpiles or temporary protection of disturbed areas	0610, 1000, 1530, 1710		Weekly or after .5 inch or greater rain event.	Ensure plastic sheeting is covering all soil stockpiles. Look for rips tears on the surface and runoff seeps under matting. Plastic should be anchored w/10' grid spacing using sandbags or suitable system. Minimum 12" overlap of all seams required. B	No changes from previous inspection.
BMP # 11	Gravel Construction Entrance	1200		Daily	There should be no sediment, rock or woodchip on paved surfaces.	Area looks clean.
BMP #13	Dust Control	1200		Continual	Apply water or controls as needed. Keep vehicular traffic in current construction areas and established access routes.	No dust observed. Water trucks were utilized.
BMP # 28	Compost Sock	N/A (not installed)		Weekly or after .5 inch or greater rain event.	May be utilized as a check dam and is not efficient for turbidity or suspended solids. When utilized as check dam, they must be staked. May have down stream skirt for undercut protection.	Not Applicable/Not installed.
вмР	Bio-filter	640, 1000, 1200, 1400, 1700		Weekly or after .5 inch or greater rain event.	Bags should be overlapped by 6". 2 stakes should support each bag. Check for undercutting or end-flow. Inspect for tears and damage. Sediment should not be greater then 1/3 the height of bag.	Bio-filter bags are in good condition.
BMP #29	Sediment Fence	640, 1000, 1200, 1400, 1700		Weekly or after .5 inch or greater rain event.	Ensure bottom of fence is not visible and fence in taut. Posts should be a maximum of 6' apart. At termination point, fence should be facing uphill. Fence should not exceed 3'and storage should not exceed 1.5'. Check for channel formation parallel to	Silt fence integrity along the east and wes beaches appear to be satisfactory. Areas along the west fence continue to be ripped/torn by wildlife in same locations nightly. E & E repaired silt fence along wes beach.
BMP Type 1 temporary	Tire Wash	1100		Weekly or more frequent during high demand	Dimensions: 40' long x 10' wide X 18" sump with 50' run out. Ensure wash water drainage/collection and treatment system is functioning and/or frequent water replacement.	No changes from previous inspection.
вмР	Mobile Fueling of Vehicles and Heavy Equipment	615		During fueling operations	Ensure compliance with local and state regulations. Request documentation for 49 CFR 178 for DOT 406, Specifics too numerous to summarize, refer to BMP.	Murphy supervised mobile fueling activities. No adverse impacts were observed.

Signature of monitor:	

Date: 05-22-03

Name of E & E monitor: Erin Murphy
Current weather conditions: Partly cloudy
Last 24 Hr weather conditions: Same

DEQ BMP Designation	BMP Name	Inspection Time(s)	Date and Time of last Inspection Time(s)	Minimum Inspection Frequency	Description of BMP	Observations (Effectiveness)
BMP #4	Preserve Existing Vegetation	Continual		Weekly or after .5 inch or greater rain event.	Preserving natural habitat to the greatest extent possible. Preserve in clumps or as individual trees. Using safety fence or flagging to delineate prior to commencing work. Delineate work extent.	Vegetation removal is complete, no additional removal of existing vegetation is anticipated.
BMP#8	Plastic Sheeting of stockpiles or temporary protection of disturbed areas	0610, 1000, 1530, 1710		Weekly or after .5 inch or greater rain event.	Ensure plastic sheeting is covering all soil stockpiles. Look for rips tears on the surface and runoff seeps under matting. Plastic should be anchored w/10' grid spacing using sandbags or suitable system. Minimum 12" overlap of all seams required. B	No changes from previous inspection.
BMP # 11	Gravel Construction Entrance	1200		Daily	There should be no sediment, rock or woodchip on paved surfaces.	Area need to be swept.
BMP #13	Dust Control	1200		Continual	Apply water or controls as needed. Keep vehicular traffic in current construction areas and established access routes.	No dust observed. Water trucks were utilized.
BMP # 28	Compost Sock	N/A (not installed)		Weekly or after .5 inch or greater rain event.	May be utilized as a check dam and is not efficient for turbidity or suspended solids. When utilized as check dam, they must be staked. May have down stream skirt for undercut protection.	Not Applicable/Not installed.
ВМР	Bio-filter	640, 1000, 1200, 1400, 1700		Weekly or after .5 inch or greater rain event.	Bags should be overlapped by 6". 2 stakes should support each bag. Check for undercutting or end-flow. Inspect for tears and damage. Sediment should not be greater then 1/3 the height of bag.	Bio-filter bags are in good condition.
BMP #29	Sediment Fence	640, 1000, 1200, 1400, 1700		Weekly or after .5 inch or greater rain event.	Ensure bottom of fence is not visible and fence in taut. Posts should be a maximum of 6' apart. At termination point, fence should be facing uphill. Fence should not exceed 3'and storage should not exceed 1.5'. Check for channel formation parallel to	Silt fence integrity along the east and west beaches appear to be satisfactory. Areas along the west fence continue to be ripped/torn by wildlife in same locations nightly.
BMP Type 1 temporary	Tire Wash	1100		Weekly or more frequent during high demand	Dimensions: 40' long x 10' wide X 18" sump with 50' run out. Ensure wash water drainage/collection and treatment system is functioning and/or frequent water replacement.	No changes from previous inspection.
ВМР	Mobile Fueling of Vehicles and Heavy Equipment	615		During fueling operations	Ensure compliance with local and state regulations. Request documentation for 49 CFR 178 for DOT 406. Specifics too numerous to summarize, refer to BMP.	E. Murphy supervised mobile fueling activities. No adverse impacts were observed.

Signature of monitor:		

Date: 05-27-03

Name of E & E monitor: Erin Murphy
Current weather conditions: Sunny and warm
Last 24 Hr weather conditions: Partly cloudy

DEQ BMP Designation	BMP Name	Inspection Time(s)	Date and Time of last Inspection Time(s)	Minimum Inspection Frequency	Description of BMP	Observations (Effectiveness)
BMP #4	Preserve Existing Vegetation	Continual		Weekly or after .5 inch or greater rain event.	Preserving natural habitat to the greatest extent possible. Preserve in clumps or as individual trees. Using safety fence or flagging to delineate prior to commencing work. Delineate work extent.	Vegetation removal is complete, no additional removal of existing vegetation is anticipated.
BMP # 8	Plastic Sheeting of stockpiles or temporary protection of disturbed areas	0610, 1000, 1530, 1710		Weekly or after .5 inch or greater rain event.	Ensure plastic sheeting is covering all soil stockpiles. Look for rips tears on the surface and runoff seeps under matting. Plastic should be anchored w/10' grid spacing using sandbags or suitable system. Minimum 12" overlap of all seams required. B	No changes from previous inspection.
BMP # 11	Gravel Construction Entrance	1200		Daily	There should be no sediment, rock or woodchip on paved surfaces.	Area was sprayed with water truck. Rocks and mud are still present.
BMP #13	Dust Control	1200		Continual	Apply water or controls as needed. Keep vehicular traffic in current construction areas and established access routes.	No dust observed. Water trucks were utilized.
BMP # 28	Compost Sock	N/A (not installed)		Weekly or after .5 inch or greater rain event.	May be utilized as a check dam and is not efficient for turbidity or suspended solids. When utilized as check dam, they must be staked. May have down stream skirt for undercut protection.	Not Applicable/Not installed.
ВМР	Bio-filter	640, 1000, 1200, 1400, 1700		Weekly or after .5 inch or greater rain event.	Bags should be overlapped by 6". 2 stakes should support each bag. Check for undercutting or end-flow. Inspect for tears and damage. Sediment should not be greater then 1/3 the height of bag.	Bio-filter bags are in good condition.
BMP #29	Sediment Fence	640, 1000, 1200, 1400, 1700		Weekly or after .5 inch or greater rain event.	Ensure bottom of fence is not visible and fence in taut. Posts should be a maximum of 6' apart. At termination point, fence should be facing uphill. Fence should not exceed 3'and storage should not exceed 1.5'. Check for channel formation parallel to	Silt fence integrity along the east and west beaches appear to be satisfactory. Areas along the west fence continue to be ripped/torn by wildlife in same locations nightly.
BMP Type 1 temporary	Tire Wash	1100		Weekly or more frequent during high demand	Dimensions: 40' long x 10' wide X 18" sump with 50' run out. Ensure wash water drainage/collection and treatment system is functioning and/or frequent water replacement.	Needs to be pumped and have sediment removed.
вмР	Mobile Fueling of Vehicles and Heavy Equipment	615		During fueling operations	Ensure compliance with local and state regulations. Request documentation for 49 CFR 178 for DOT 406. Specifics too numerous to summarize, refer to BMP.	M. Coenen supervised mobile fueling activities. No adverse impacts were observed.

Signature of monitor:	

Date: 05-28-03

DEQ BMP Designation	BMP Name	Inspection Time(s)	Date and Time of last Inspection Time(s)	Minimum Inspection Frequency	Description of BMP	Observations (Effectiveness)
BMP #4	Preserve Existing Vegetation	Continual		Weekly or after .5 inch or greater rain event.	Preserving natural habitat to the greatest extent possible. Preserve in clumps or as individual trees. Using safety fence or flagging to delineate prior to commencing work. Delineate work extent.	Vegetation removal is complete, no additional removal of existing vegetation is anticipated.
BMP # 8	Plastic Sheeting of stockpiles or temporary protection of disturbed areas	0610, 1000, 1530, 1710		Weekly or after .5 inch or greater rain event.	Ensure plastic sheeting is covering all soil stockpiles. Look for rips tears on the surface and runoff seeps under matting. Plastic should be anchored w/10' grid spacing using sandbags or suitable system. Minimum 12" overlap of all seams required. B	No changes from previous inspection.
BMP # 11	Gravel Construction Entrance	1200		Daily	There should be no sediment, rock or woodchip on paved surfaces.	Area was sprayed with water truck, and appears clean.
BMP #13	Dust Control	1200		Continual	Apply water or controls as needed. Keep vehicular traffic in current construction areas and established access routes.	No dust observed. Water trucks were utilized.
BMP # 28	Compost Sock	N/A (not installed)		Weekly or after .5 inch or greater rain event.	May be utilized as a check dam and is not efficient for turbidity or suspended solids. When utilized as check dam, they must be staked. May have down stream skirt for undercut protection.	Not Applicable/Not installed.
вмр	Bio-filter	640, 1000, 1200, 1400, 1700		Weekly or after .5 inch or greater rain event.	Bags should be overlapped by 6". 2 stakes should support each bag. Check for undercutting or end-flow. Inspect for tears and damage. Sediment should not be greater then 1/3 the height of bag.	Bio-filter bags are in good condition.
BMP #29	Sediment Fence	640, 1000, 1200, 1400, 1700		Weekly or after .5 inch or greater rain event.	Posts should be a maximum of 6' apart. At termination point, fence should be facing uphill. Fence should not exceed 3'and storage should not exceed 1.5'. Check for	Silt fence integrity along the east and wes beaches appear to be satisfactory. Areas along the west fence continue to be ripped/torn by wildlife in same locations nightly. High water level is also causing rips and tears in fence.
BMP Type 1 temporary	Tire Wash	1100		Weekly or more frequent during high demand	Dimensions: 40' long x 10' wide X 18" sump with 50' run out. Ensure wash water drainage/collection and treatment system is functioning and/or frequent water replacement.	Needs to be pumped and have sediment removed.
ВМР	Mobile Fueling of Vehicles and Heavy Equipment	615		During fueling operations	Ensure compliance with local and state regulations. Request documentation for 49 CFR 178 for DOT 406. Specifics too numerous to summarize, refer to BMP.	A. Murphy supervised mobile fueling activities. No adverse impacts were observed.

Signature of monitor:		

Date: 05-29-03

Last 24 Hr we	ather conditions	: Partly cloudy				
DEQ BMP Designation	BMP Name	Inspection Time(s)	Date and Time of last Inspection Time(s)	Minimum Inspection Frequency	Description of BMP	Observations (Effectiveness)
BMP #4	Preserve Existing Vegetation	Continual		Weekly or after .5 inch or greater rain event.	Preserving natural habitat to the greatest extent possible. Preserve in clumps or as individual trees. Using safety fence or flagging to delineate prior to commencing work. Delineate work extent.	Vegetation removal is complete, no additional removal of existing vegetation is anticipated.
BMP # 8	Plastic Sheeting of stockpiles or temporary protection of disturbed areas	0610, 1000, 1530, 1710		Weekly or after .5 inch or greater rain event.	Ensure plastic sheeting is covering all soil stockpiles. Look for rips tears on the surface and runoff seeps under matting. Plastic should be anchored w/10' grid spacing using sandbags or suitable system. Minimum 12" overlap of all seams required. B	No changes from previous inspection.
BMP # 11	Gravel Construction Entrance	1200		Daily	There should be no sediment, rock or woodchip on paved surfaces.	Area is clean.
BMP #13	Dust Control	1200		Continual	Apply water or controls as needed. Keep vehicular traffic in current construction areas and established access routes.	No dust observed. Water trucks were utilized.
BMP # 28	Compost Sock	N/A (not installed)		Weekly or after .5 inch or greater rain event.	May be utilized as a check dam and is not efficient for turbidity or suspended solids. When utilized as check dam, they must be staked. May have down stream skirt for undercut protection.	Not Applicable/Not installed.
вмР	Bio-filter	640, 1000, 1200, 1400, 1700		Weekly or after .5 inch or greater rain event.	Bags should be overlapped by 6". 2 stakes should support each bag. Check for undercutting or end-flow. Inspect for tears and damage. Sediment should not be greater then 1/3 the height of bag.	Bio-filter bags are in good condition.
BMP #29	Sediment Fence	640, 1000, 1200, 1400, 1700		Weekly or after .5 inch or greater rain event.	Ensure bottom of fence is not visible and fence in taut. Posts should be a maximum of 6' apart. At termination point, fence should be facing uphill. Fence should not exceed 3'and storage should not exceed 1.5'. Check for channel formation parallel to	Remtech repaired the silt fencing in the morning. Due to seasonal high tides and spring runoff the silt fence was moved slightly inland at STA 8.82 to avoid impacts to the fence.
BMP Type 1 temporary	Tire Wash	1100		Weekly or more frequent during high demand	Dimensions: 40' long x 10' wide X 18" sump with 50' run out. Ensure wash water drainage/collection and treatment system is functioning and/or frequent water replacement.	Needs to be pumped and have sediment removed.
BIVIE	Mobile Fueling of Vehicles and Heavy Equipment	615		During fueling operations	Ensure compliance with local and state regulations. Request documentation for 49 CFR 178 for DOT 406. Specifics too numerous to summarize, refer to BMP.	Murphy supervised mobile fueling activities. No adverse impacts were observed.

Date: 05-30-03

DEQ BMP Designation	BMP Name	Inspection Time(s)	Date and Time of last Inspection Time(s)	Minimum Inspection Frequency	Description of BMP	Observations (Effectiveness)
BMP #4	Preserve Existing Vegetation	Continual		Weekly or after .5 inch or greater rain event.	Preserving natural habitat to the greatest extent possible. Preserve in clumps or as individual trees. Using safety fence or flagging to delineate prior to commencing work. Delineate work extent.	Vegetation removal is complete, no additional removal of existing vegetation is anticipated.
BMP # 8	Plastic Sheeting of stockpiles or temporary protection of disturbed areas	0610, 1000, 1530, 1710		Weekly or after .5 inch or greater rain event.	Ensure plastic sheeting is covering all soil stockpiles. Look for rips tears on the surface and runoff seeps under matting. Plastic should be anchored w/10' grid spacing using sandbags or suitable system. Minimum 12" overlap of all seams required. B	No changes from previous inspection.
BMP # 11	Gravel Construction Entrance	1200		Daily	There should be no sediment, rock or woodchip on paved surfaces.	Area is clean.
BMP #13	Dust Control	1200		Continual	Apply water or controls as needed. Keep vehicular traffic in current construction areas and established access routes.	No dust observed. Water trucks were utilized.
BMP # 28	Compost Sock	N/A (not installed)		Weekly or after .5 inch or greater rain event.	May be utilized as a check dam and is not efficient for turbidity or suspended solids. When utilized as check dam, they must be staked. May have down stream skirt for undercut protection.	Not Applicable/Not installed.
вмР	Bio-filter	640, 1000, 1200, 1400, 1700		Weekly or after .5 inch or greater rain event.	Bags should be overlapped by 6". 2 stakes should support each bag. Check for undercutting or end-flow. Inspect for tears and damage. Sediment should not be greater then 1/3 the height of bag.	Bio-filter bags are in good condition.
BMP #29	Sediment Fence	640, 1000, 1200, 1400, 1700		Weekly or after .5 inch or greater rain event.	Ensure bottom of fence is not visible and fence in taut. Posts should be a maximum of 6' apart. At termination point, fence should be facing uphill. Fence should not exceed 3'and storage should not exceed 1.5'. Check for channel formation parallel to	Remtech repaired the silt fencing in the morning.
BMP Type 1 temporary	Tire Wash	1100		Weekly or more frequent during high demand	Dimensions: 40' long x 10' wide X 18" sump with 50' run out. Ensure wash water drainage/collection and treatment system is functioning and/or frequent water replacement.	Needs to be pumped and have sediment removed.
ВМР	Mobile Fueling of Vehicles and Heavy Equipment	615		During fueling operations	Request documentation for 49 CFR 178 for DOT 406.	M. Coenen supervised mobile fueling activities. No adverse impacts were observed.

Date: 06-02-03

DEQ BMP Designation	BMP Name	Inspection Time(s)	Date and Time of last Inspection Time(s)	Minimum Inspection Frequency	Description of BMP	Observations (Effectiveness)
BMP #4	Preserve Existing Vegetation	Continual		Weekly or after .5 inch or greater rain event.	Preserving natural habital to the greatest extent possible. Preserve in clumps or as individual trees. Using safety fence or flagging to delineate prior to commencing work. Delineate work extent.	Vegetation removal is complete, no additional removal of existing vegetation is anticipated.
BMP#8	Plastic Sheeting of stockpiles or temporary protection of disturbed areas	0610, 1000, 1530, 1710		Weekly or after .5 inch or greater rain event.	Ensure plastic sheeting is covering all soil stockpiles. Look for rips tears on the surface and runoff seeps under matting. Plastic should be anchored w/10' grid spacing using sandbags or suitable system. Minimum 12" overlap of all seams required. B	No changes from previous inspection.
BMP # 11	Gravel Construction Entrance	1200		Daily	There should be no sediment, rock or woodchip on paved surfaces.	Area is clean.
BMP #13	Dust Control	1200		Continual	Apply water or controls as needed. Keep vehicular traffic in current construction areas and established access routes.	No dust observed. Water trucks were utilized.
BMP # 28	Compost Sock	N/A (not installed)		Weekly or after .5 inch or greater rain event.	May be utilized as a check dam and is not efficient for turbidity or suspended solids. When utilized as check dam, they must be staked. May have down stream skirt for undercut protection.	Not Applicable/Not installed.
вмР	Bio-filter	640, 1000, 1200, 1400, 1700		Weekly or after .5 inch or greater rain event.	Bags should be overlapped by 6". 2 stakes should support each bag. Check for undercutting or end-flow. Inspect for tears and damage. Sediment should not be greater then 1/3 the height of bag.	Bio-filter bags are in good condition.
BMP #29	Sediment Fence	640, 1000, 1200, 1400, 1700		Weekly or after .5 inch or greater rain event.	Ensure bottom of fence is not visible and fence in taut. Posts should be a maximum of 6' apart. At termination point, fence should be facing uphill. Fence should not exceed 3'and storage should not exceed 1.5'. Check for channel formation parallel to	Silt fence and bio-bags were in river upon arrival. E & E recommended that Remtech pull up/remove silt fence and bio-bags in areas were construction crews are not operating and will not be operating in the future.
BMP Type 1 temporary	Tire Wash	1100		Weekly or more frequent during high demand	Dimensions: 40' long x 10' wide X 18" sump with 50' run out. Ensure wash water drainage/collection and treatment system is functioning and/or frequent water replacement.	Needs to be pumped and have sediment removed.
ВМР	Mobile Fueling of Vehicles and Heavy Equipment	615		During fueling operations	Ensure compliance with local and state regulations. Request documentation for 49 CFR 178 for DOT 406. Specifics too numerous to summarize, refer to BMP.	Murphy supervised mobile fueling activities. No adverse impacts were observed.

Signature of monitor:	i	

Date: 06-03-03

Name of E & E monitor: Erin Murphy Current weather conditions: Sun

Last 24 Hr weather conditions: Sun and warm

DEQ BMP Designation	BMP Name	Inspection Time(s)	Date and Time of last Inspection Time(s)	Minimum Inspection Frequency	Description of BMP	Observations (Effectiveness)
BMP #4	Preserve Existing Vegetation	Continual		Weekly or after .5 inch or greater rain event.	Preserving natural habitat to the greatest extent possible. Preserve in clumps or as individual trees. Using safety fence or flagging to delineate prior to commencing work. Delineate work extent.	Vegetation removal is complete, no additional removal of existing vegetation is anticipated.
BMP # 8	Plastic Sheeting of stockpiles or temporary protection of disturbed areas	0610, 1000, 1530, 1710		Weekly or after .5 inch or greater rain event.	Ensure plastic sheeting is covering all soil stockpiles. Look for rips tears on the surface and runoff seeps under matting. Plastic should be anchored w/10' grid spacing using sandbags or suitable system. Minimum 12" overlap of all seams required. B	No changes from previous inspection.
BMP # 11	Gravel Construction Entrance	1200		Daily	There should be no sediment, rock or woodchip on paved surfaces.	Area is clean.
BMP #13	Dust Control	1200		Continual	Apply water or controls as needed. Keep vehicular traffic in current construction areas and established access routes.	No dust observed. Water trucks were utilized.
BMP # 28	Compost Sock	N/A (not installed)		Weekly or after .5 inch or greater rain event.	May be utilized as a check darn and is not efficient for turbidity or suspended solids. When utilized as check dam, they must be staked. May have down stream skirt for undercut protection.	Not Applicable/Not installed.
вмР	Bio-filter	640, 1000, 1200, 1400, 1700	h	Weekly or after .5 inch or greater rain event.	Bags should be overlapped by 6". 2 stakes should support each bag. Check for undercutting or end-flow. Inspect for tears and damage. Sediment should not be greater then 1/3 the height of bag.	Bio-filter bags are in good condition.
BMP #29	Sediment Fence	640, 1000, 1200, 1400, 1700		Weekly or after .5 inch or greater rain event.	Ensure bottom of fence is not visible and fence in taut. Posts should be a maximum of 6' apart. At termination point, fence should be facing uphill. Fence should not exceed 3'and storage should not exceed 1.5'. Check for channel formation parallel to	Silt fence and bio-bags were in river upon arrival. E & E recommended that Remtech pull up/remove silt fence and bio-bags in areas were construction crews are not operating and will not be operating in the future. This still has not been done.
BMP Type 1 temporary	Tire Wash	1100		Weekly or more frequent during high demand	Dimensions: 40' long x 10' wide X 18" sump with 50' run out. Ensure wash water drainage/collection and treatment system is functioning and/or frequent water replacement.	Needs to be pumped and have sediment removed.
ВМР	Mobile Fueling of Vehicles and Heavy Equipment	615		During fueling operations	Ensure compliance with local and state regulations. Request documentation for 49 CFR 178 for DOT 406. Specifics too numerous to summarize, refer to BMP.	E. Murphy supervised mobile fueling activities. No adverse impacts were observed.

Signature of monitor:		

Date: 06-04-03

Name of E & E monitor: Erin Murphy Current weather conditions: Sun Last 24 Hr weather conditions: Sun and warm

Last 24 mr we	ather condition	s. Sun and wari				
DEQ BMP Designation	BMP Name	Inspection Time(s)	Date and Time of last Inspection Time(s)	Minimum Inspection Frequency	Description of BMP	Observations (Effectiveness)
BMP #4	Preserve Existing Vegetation	Continual		Weekly or after .5 inch or greater rain event.	Preserving natural habitat to the greatest extent possible. Preserve in clumps or as individual trees. Using safety fence or flagging to delineate prior to commencing work. Delineate work extent.	Vegetation removal is complete, no additional removal of existing vegetation is anticipated.
BMP#8	Plastic Sheeting of stockpiles or temporary protection of disturbed areas	1530, 1710		Weekly or after .5 inch or greater rain event.	Ensure plastic sheeting is covering all soil stockpiles. Look for rips tears on the surface and runoff seeps under matting. Plastic should be anchored w/10' grid spacing using sandbags or suitable system. Minimum 12" overlap of all seams required. B	No changes from previous inspection.
BMP # 11	Gravel Construction Entrance	1300		Daily	There should be no sediment, rock or woodchip on paved surfaces.	Area is clean.
BMP #13	Dust Control	1300, 1400, 1500, 1600, 1700		Continual	Apply water or controls as needed. Keep vehicular traffic in current construction areas and established access routes.	No dust observed. Water trucks were utilized.
BMP # 28	Compost Sock	N/A (not installed)	:	Weekly or after .5 inch or greater rain event.	May be utilized as a check dam and is not efficient for turbidity or suspended solids. When utilized as check dam, they must be staked. May have down stream skirt for undercut protection.	Not Applicable/Not installed.
вмр	Bio-filter			Weekly or after .5 inch or greater rain event.	Bags should be overlapped by 6". 2 stakes should support each bag. Check for undercutting or end-flow. Inspect for tears and damage. Sediment should not be greater then 1/3 the height of bag.	Bio-filter bags have been moved behind the sheet pile in all areas except that of current sheet pile operations.
BMP #29	Sediment Fence	1500		Weekly or after .5 inch or greater rain event.	Ensure bottom of fence is not visible and fence in taut. Posts should be a maximum of 6' apart. At termination point, fence should be facing uphill. Fence should not exceed 3'and storage should not exceed 1.5'. Check for channel formation parallel to	Silt fence has been removed in areas no longer required. Existing silt fence continues to be ripped nightly by wildlife.
BMP Type 1 temporary	Tire Wash	1500		Weekly or more frequent during high demand	Dimensions: 40' long x 10' wide X 18" sump with 50' run out. Ensure wash water drainage/collection and treatment system is functioning and/or frequent water replacement.	Needs to be pumped and have sediment removed.
ВМР	Mobile Fueling of Vehicles and Heavy Equipment	615		During fueling operations	Ensure compliance with local and state regulations. Request documentation for 49 CFR 178 for DOT 406. Specifics too numerous to summarize, refer to BMP.	M. Coenen supervised mobile fueling activities. No adverse impacts were observed.

Signature of monitor:	
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Date: 06-05-03

Name of E & E monitor: Erin Murphy Current weather conditions: Sun

Last 24 Hr weather conditions: Sunny and hot

DEQ BMP Designation	BMP Name	Inspection Time(s)	Date and Time of last Inspection Time(s)	Minimum Inspection Frequency	Description of BMP	Observations (Effectiveness)
BMP #4	Preserve Existing Vegetation	Continual		Weekly or after .5 inch or greater rain event.	Preserving natural habitat to the greatest extent possible. Preserve in clumps or as individual trees. Using safety fence or flagging to delineate prior to commencing work. Delineate work extent.	Vegetation removal is complete, no additional removal of existing vegetation is anticipated.
BMP#8	Plastic Sheeting of stockpiles or temporary protection of disturbed areas	1530, 1710		Weekly or after .5 inch or greater rain event.	Ensure plastic sheeting is covering all soil stockpiles. Look for rips tears on the surface and runoff seeps under matting. Plastic should be anchored w/10' grid spacing using sandbags or suitable system. Minimum 12" overlap of all seams required. B	No changes from previous inspection.
BMP # 11	Gravel Construction Entrance	1300		Daily	There should be no sediment, rock or woodchip on paved surfaces.	Area has been recently swept.
BMP #13	Dust Control	1300, 1400, 1500, 1600, 1700		Continual	Apply water or controls as needed. Keep vehicular traffic in current construction areas and established access routes.	No dust observed. Water trucks were utilized.
BMP # 28	Compost Sock	N/A (not installed)	1	Weekly or after .5 inch or greater rain event.	May be utilized as a check dam and is not efficient for turbidity or suspended solids. When utilized as check dam, they must be staked. May have down stream skirt for undercut protection.	Not Applicable/Not installed.
ВМР	Bio-filter			Weekly or after .5 inch or greater rain event.	·	No changes from previous inspection. Bio- bags remain in good condition.
BMP #29	Sediment Fence	1500		Weekly or after .5 inch or greater rain event.		Silt fence has been removed in areas no longer required. Existing silt fence continues to be ripped nightly by wildlife.
BMP Type 1 temporary	Tire Wash	1500		Weekly or more frequent during high demand	Dimensions: 40' long x 10' wide X 18" sump with 50' run out. Ensure wash water drainage/collection and treatment system is functioning and/or frequent water replacement.	Needs to be pumped and have sediment removed.
ВМР	Mobile Fueling of Vehicles and Heavy Equipment	615		During fueling operations	Ensure compliance with local and state regulations. Request documentation for 49 CFR 178 for DOT 406. Specifics too numerous to summarize, refer to BMP.	Murphy supervised mobile fueling activities. No adverse impacts were observed.

Signature of monitor:	

Date: 07-01-03

Name of E & E monitor: Andrew Murphy

Current weather conditions: Sun

Last 24 Hr weather conditions: Sunny and hot

DEQ BMP Designation	BMP Name	Inspection Time(s)	Date and Time of last Inspection Time(s)	Minimum Inspection Frequency	Description of BMP	Observations (Effectiveness)
BMP #4	Preserve Existing Vegetation	Continual		Weekly or after .5 inch or greater rain event.	Delineate work extent	Vegetation removal is complete, no additional removal of existing vegetation is anticipated.
BMP#8	Plastic Sheeting of stockpiles or temporary protection of disturbed areas			Weekly or after .5 inch or'greater rain event.	Ensure plastic sheeting is covering all soil stockpiles. Look for rips lears on the surface and runoff seeps under matting. Plastic should be anchored w/10' grid spacing using sandbags or suitable system. Minimum 12" overlap of all seams required. B	NA
BMP#11	Gravel Construction Entrance	ı		Daily	There should be no sediment, rock or woodchip on paved surfaces.	Area needs to be cleaned.
BMP #13	Dust Control	0800, 1200		Continual	Apply water or controls as needed. Keep vehicular traffic in current construction areas and established access routes.	No dust observed. Water trucks were utilized.
BMP # 28	Compost Sock	N/A (not installed)		Weekly or after .5 inch or greater rain event.	May be utilized as a check dam and is not efficient for turbidity or suspended solids. When utilized as check dam, they must be staked. May have down stream skirt for undercut protection.	Not Applicable/Not installed.
ВМР	Bio-filter			Weekly or after .5 inch or greater rain event.	Bags should be overlapped by 6". 2 stakes should support each bag. Check for undercutting or end-flow. Inspect for tears and damage. Sediment should not be greater then 1/3 the height of bag.	NA
BMP #29	Sediment Fence			Weekly or after .5 inch or greater rain event.	Ensure bottom of fence is not visible and fence in taut. Posts should be a maximum of 6' apart. At termination point, fence should be facing uphill. Fence should not exceed 3'and storage should not exceed 1.5'. Check for channel formation parallel to	NA
BMP Type 1 temporary	Tire Wash	1200		Weekly or more frequent during high demand	Dimensions: 40' long x 10' wide X 18" sump with 50' run out. Ensure wash water drainage/collection and treatment system is functioning and/or frequent water replacement.	Needs to be pumped and have sediment removed.
ВМР	Mobile Fueling of Vehicles and Heavy Equipment	615		During fueling operations	Ensure compliance with local and state regulations. Request documentation for 49 CFR 178 for DOT 406. Specifics too numerous to summarize, refer to BMP.	A. Murphy supervised mobile fueling activities. No adverse impacts were observed.

Signature of monitor:

Date: 07-02-03

Name of E & E monitor: Andrew Current weather conditions: Sun

Last 24 Hr weather conditions: Sunny and hot

DEQ BMP Designation	BMP Name	Inspection Time(s)	Date and Time of last Inspection Time(s)	Minimum Inspection Frequency	Description of BMP	Observations (Effectiveness)
BMP #4	Preserve Existing Vegetation	Continual		Weekly or after .5 inch or greater rain event.	Preserving natural habital to the greatest extent possible. Preserve in clumps or as individual trees. Using safety fence or flagging to defineate prior to commencing work. Delineate work extent.	Vegetation removal is complete, no additional removal of existing vegetation is anticipated.
BMP#8	Plastic Sheeting of stockpiles or temporary protection of disturbed areas			Weekly or after .5 inch or greater rain event.	Ensure plastic sheeting is covering all soil stockpiles. Look for rips tears on the surface and runoff seeps under matting. Plastic should be anchored w/10' grid spacing using sandbags or suitable system. Minimum 12" overlap of all seams required. B	NA
BMP # 11	Gravel Construction Entrance			Daily	There should be no sediment, rock or woodchip on paved surfaces.	Area needs to be cleaned.
BMP #13	Dust Control	0800, 1200		Continual	Apply water or controls as needed. Keep vehicular traffic in current construction areas and established access routes.	No dust observed. Water trucks were utilized.
BMP # 28	Compost Sock	N/A (not installed)		Weekly or after .5 inch or greater rain event.	May be utilized as a check darn and is not efficient for turbidity or suspended solids. When utilized as check dam, they must be staked. May have down stream skirt for undercut protection.	Not Applicable/Not installed.
ВМР	Bio-filter			Weekly or after .5 inch or greater rain event.	Bags should be overlapped by 6°. 2 stakes should support each bag. Check for undercutting or end-flow. Inspect for tears and damage. Sediment should not be greater then 1/3 the height of bag.	NA
BMP #29	Sediment Fence				Ensure bottom of fence is not visible and fence in taut. Posts should be a maximum of 6' apart. At termination point, fence should be facing uphill. Fence should not exceed 3'and storage should not exceed 1.5'. Check for channel formation parallel to	NA
BMP Type 1 temporary	Tire Wash	1200		Weekly or more frequent during high demand	Dimensions: 40' long x 10' wide X 18" sump with 50' run out. Ensure wash water drainage/collection and treatment system is functioning and/or frequent water replacement.	Needs to be pumped and have sediment removed.
ВМР	Mobile Fueling of Vehicles and Heavy Equipment	615		During fueling operations	Ensure compliance with local and state regulations. Request documentation for 49 CFR 178 for DOT 406. Specifics too numerous to summarize, refer to BMP.	A. Murphy supervised mobile fueling activities. No adverse impacts were observed.

Signature of monitor:		

C

Photodocumentation

Portland, Oregon

Date: 5/29/03

Taken by: Noreen Roster

Time: 9:00

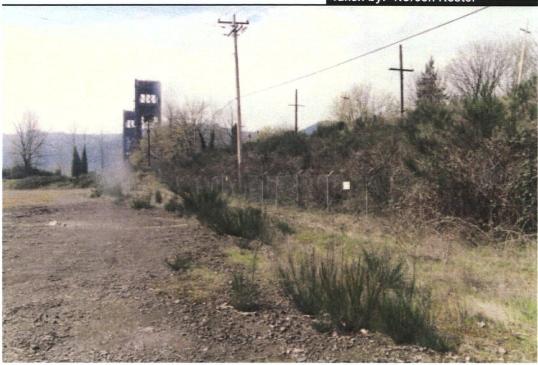


Photo 1 Upland vegetation at far northwest portion of site. *Direction: Southwest*

Date: 5/29/03 Time: 9:02
Taken by: Noreen Roster

Photo 2 Upland vegetation just above bank along northwest beach. Direction: Southwest



Photo 3 Dense vegetation along bank. Direction: East



Photo 4 Canadian goose on northwest beach with woody debris. Direction: Southeast

Date: 5/29/03 Time: 9:10

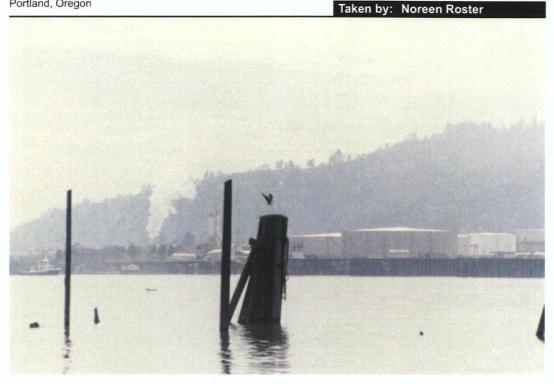


Photo 5 Osprey building nest. Direction: South

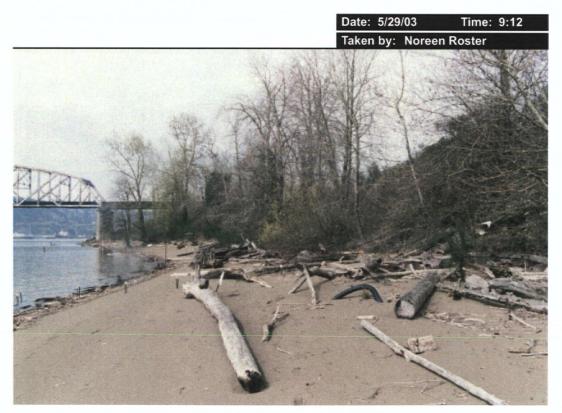


Photo 6 Northwest beach. Direction: West

Date: 5/29/03

Time: 11:00

Taken by: Noreen Roster



Photo 7 Vegetation along bank of northwest beach. Direction: Southeast

Date: 5/29/03 Time: 11:19

Taken by: Noreen Roster

Photo 8 Snag and woody debris along northwest beach. Direction: Southeast

Date: 5/29/03

Time: 10:00

Taken by: Noreen Roster

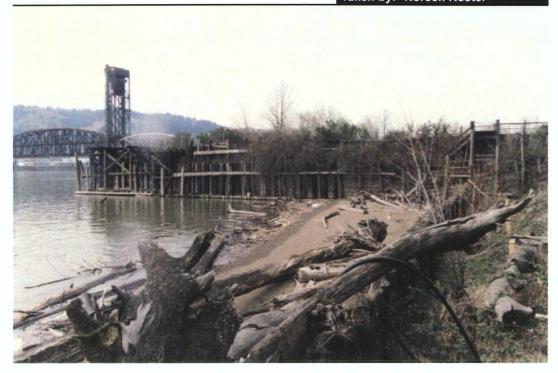


Photo 9 Woody debris near bulkhead. Direction: Northwest

Date: 5/29/03 Time: 10:06

Taken by: Noreen Roster



Photo 10 Vegetation and woody debris along bank of southeast beach. *Direction: Southeast*

MCCORMICK AND BAXTER CREOSOTING COMPANY SITE



Woody debris along southeast beach. *Direction: Southeast* Photo 11

Date: 5/29/03 Time: 10:09 Taken by: Noreen Roster



Photo 12 Upland vegetation at south portion of site. Direction: Southeast

Date: 5/29/03

Time: 10:15

Taken by: Noreen Roster



Photo 13 Upland vegetation of south-eastern portion of site. Direction: East

Date: 5/29/03 Time: 10:16
Taken by: Noreen Roster

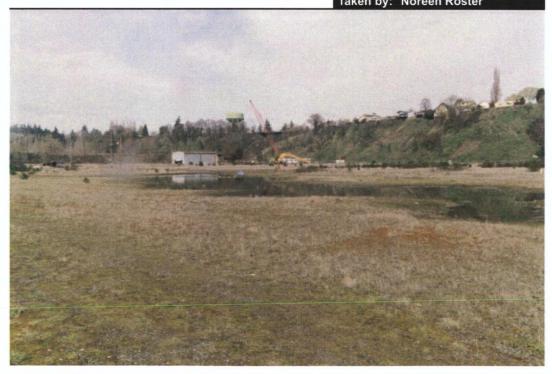


Photo 14 Upland vegetation of central portion of site. *Direction: Northeast*



Photo 15 Nutrea or beaver activity. Direction: East



Photo 16 Crew is moving logs waterward on southeast beach to prepare for installation of silt fence.

Direction: Northwest

McCormick and Baxter Creosoting Company Site

Date: 4/1/03 Time: 8:05

Portland, Oregon

Taken by: Andrew Murphy

04 01 2003 14 17

Photo 17 View of boom and log displacement at southeast beach. *Direction: West*

Date: 4/30/03 Time: 9:32

Taken by: Mike Coenen



Photo 18 Tree removal along the northwest bank. Direction: East

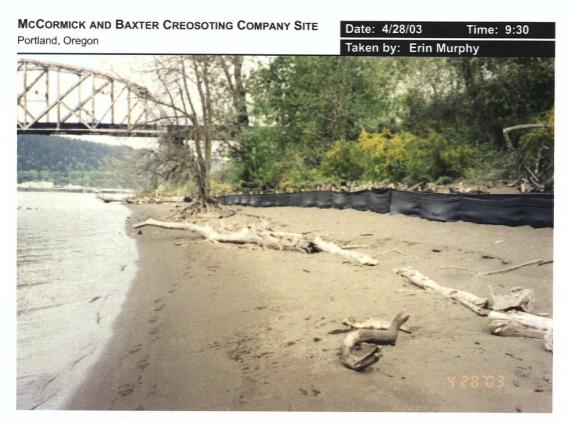


Photo 19 Silt fence along northwest beach. Direction: Northwest



Photo 20 Dead Oncorhynchus tshawytscha found on northwest beach. Direction: Down

McCormick and Baxter Creosoting Company Site



Date: 5/27/03

Time: 8:45

Photo 21 Dead *Oncorhynchus mykiss* found on northwest beach. *Direction: Down*

Date: 5/1/03 Time: 10:03

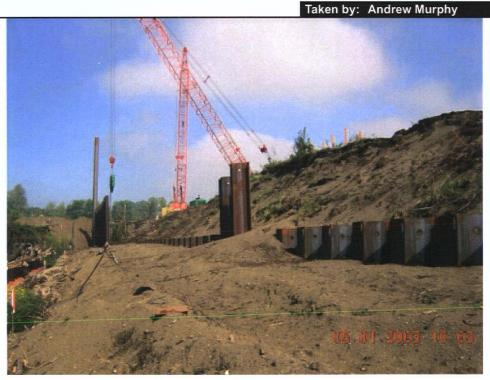


Photo 22 View of bank erosion at southeast bank. Direction: Northwest

Date: 7/1/03 Time: 16:46

Taken by: Andrew Murphy



Photo 23 Observed sheen in water. Direction: West

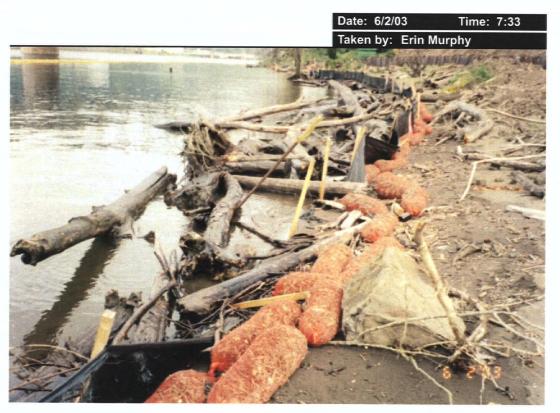


Photo 24 Silt fence and bio-bags on northwest beach after a high water event. Direction: Northwest

McCormick and Baxter Creosoting Company Site

Date: 6/2/03 Time: 7:33

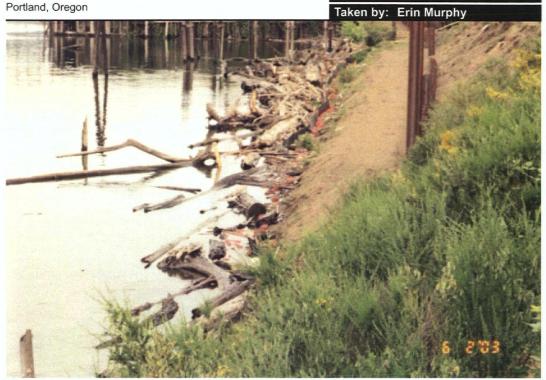


Photo 25 Silt fence and bio-bags on southeast beach after a high water event. Direction: Northwest

Date: 7/29/03 Time: 9:00

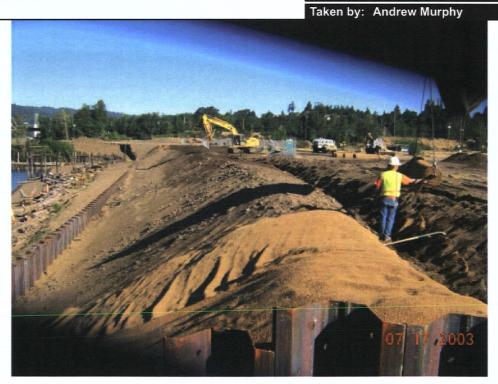


Photo 26 Jute mat installation along southeast bank. Direction: Northwest

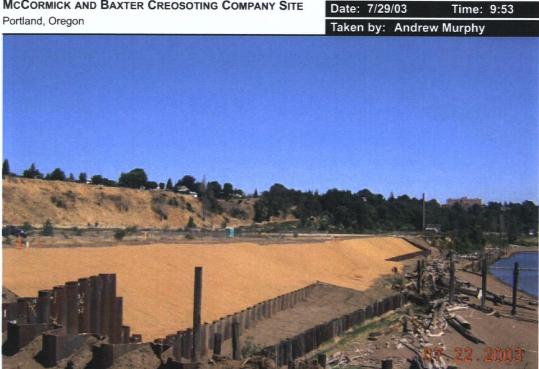


Photo 27 Jute mat on southeast bank. Direction: East



Photo 28 Osprey at bulkhead during the clean-up phase of construction. Direction: West